

Fig. 1

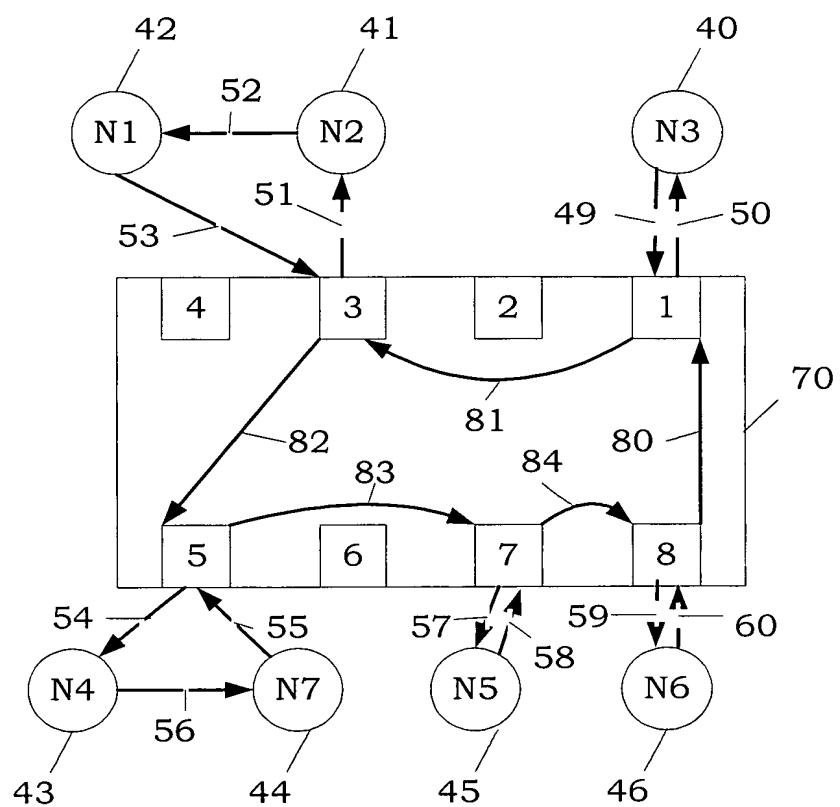
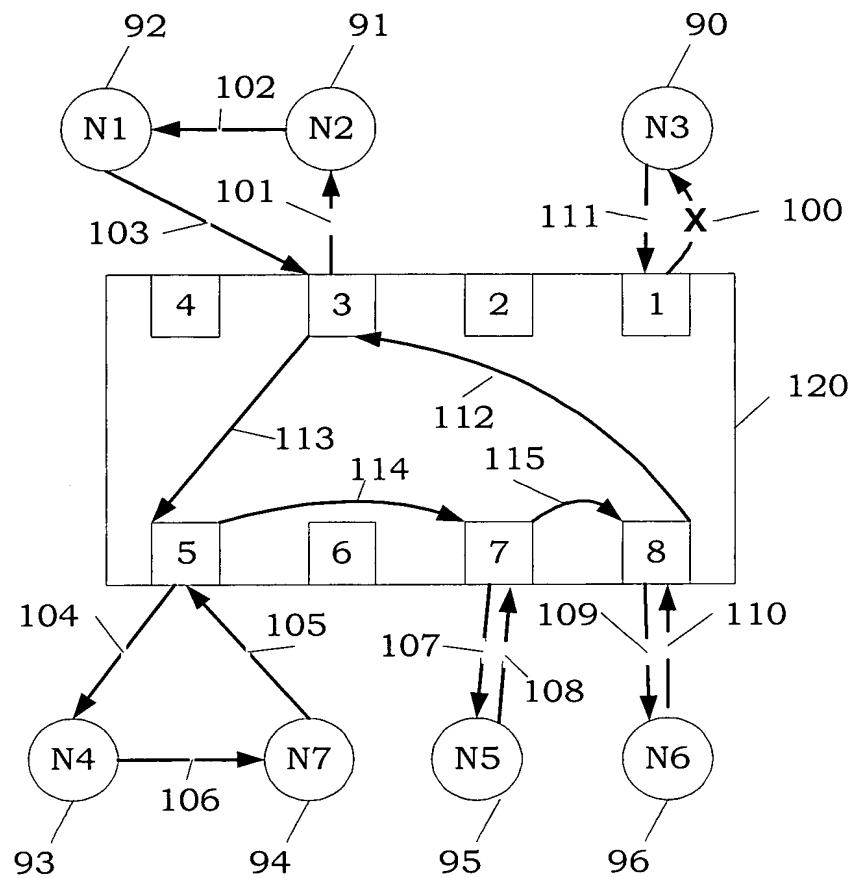


Fig. 2



Fibre Channel Arbitrated Loop Hub

Fig. 3

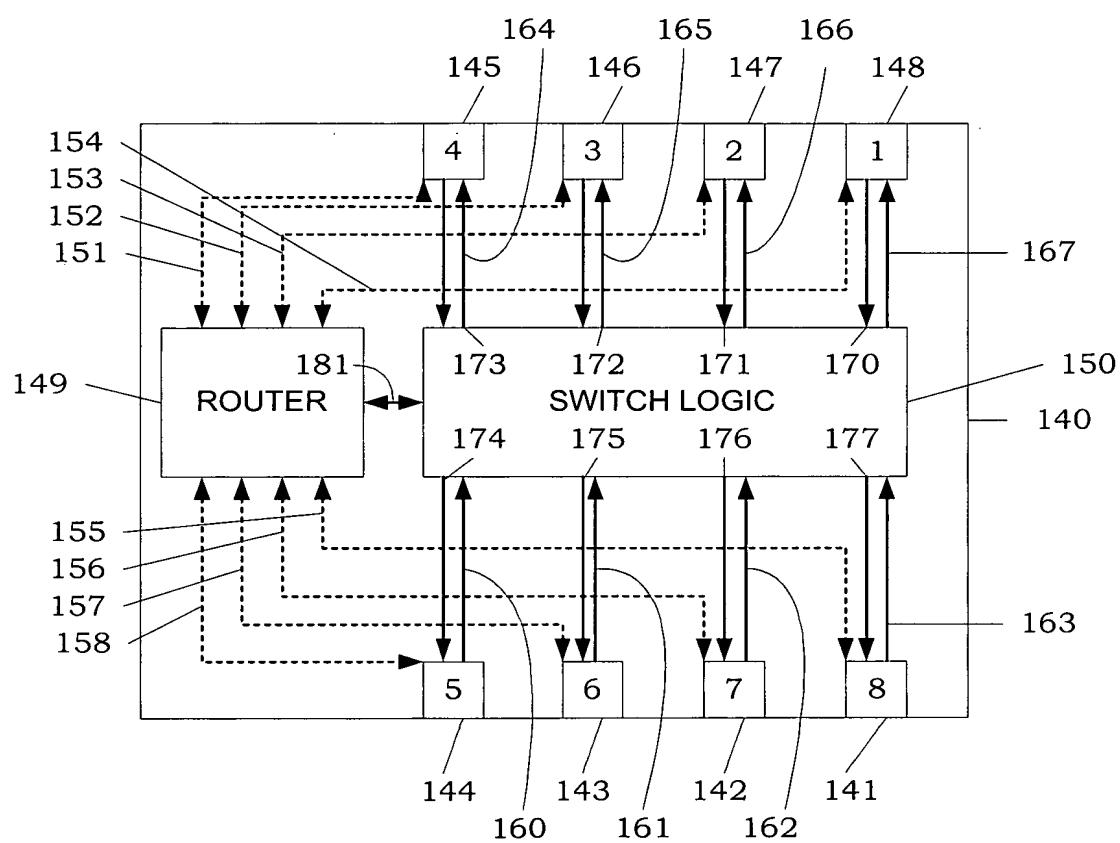


Fig. 4

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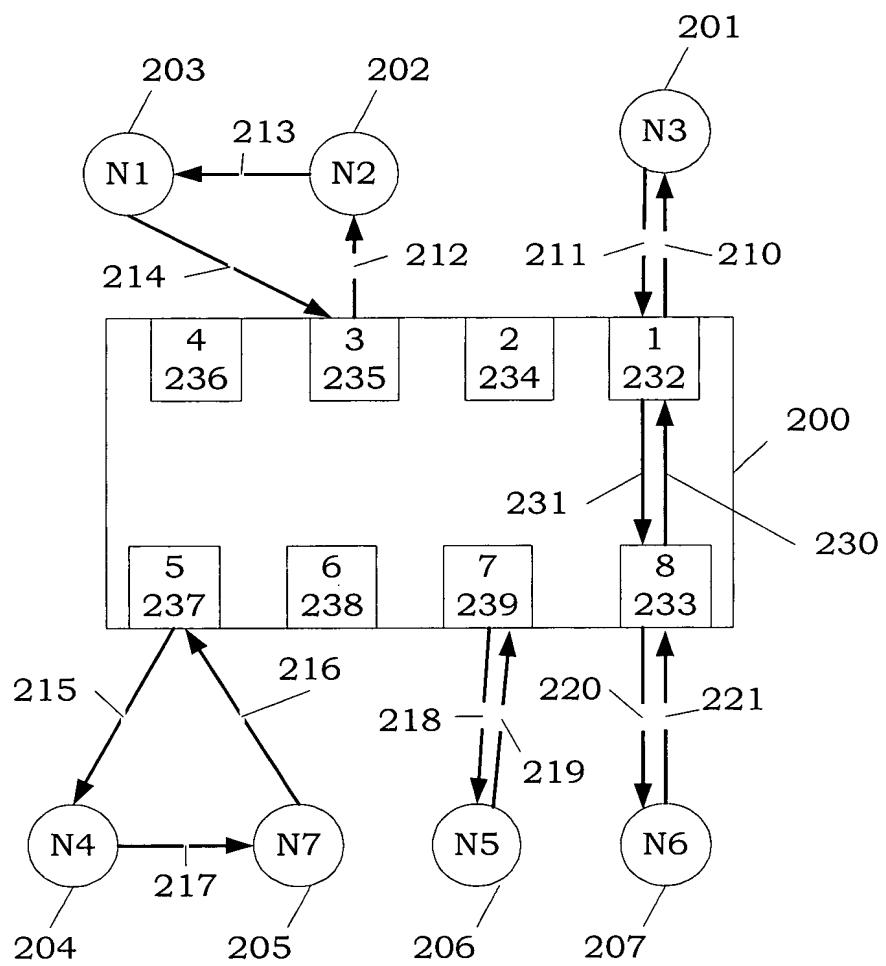


Fig. 5

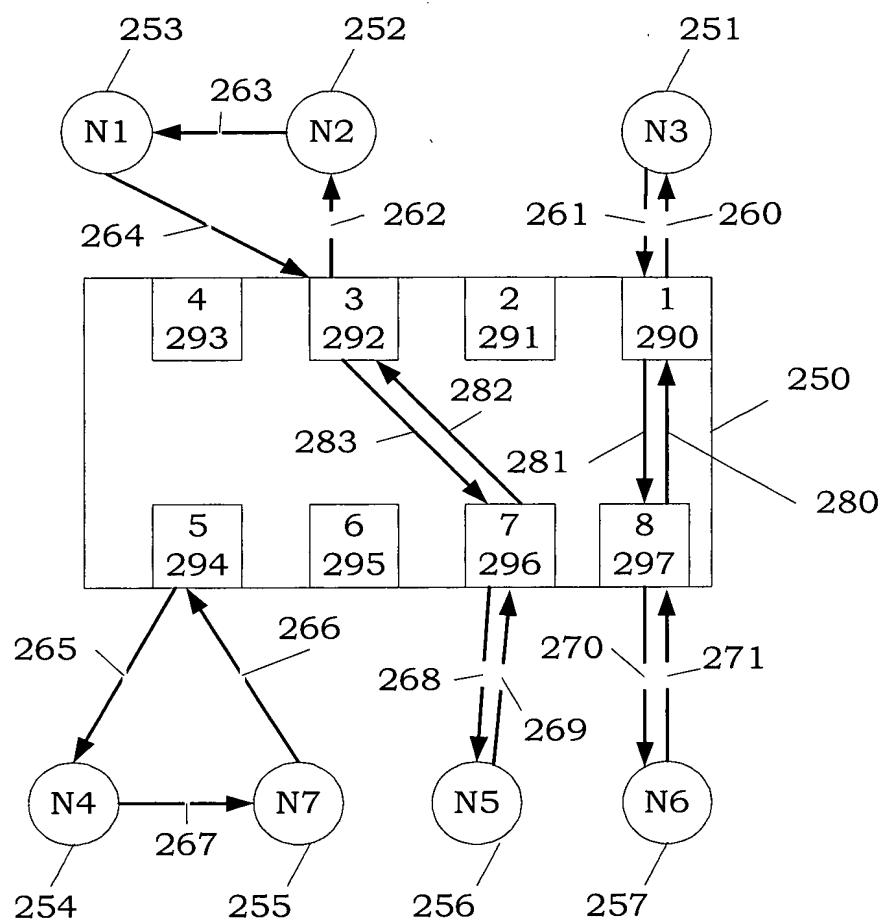


Fig. 6

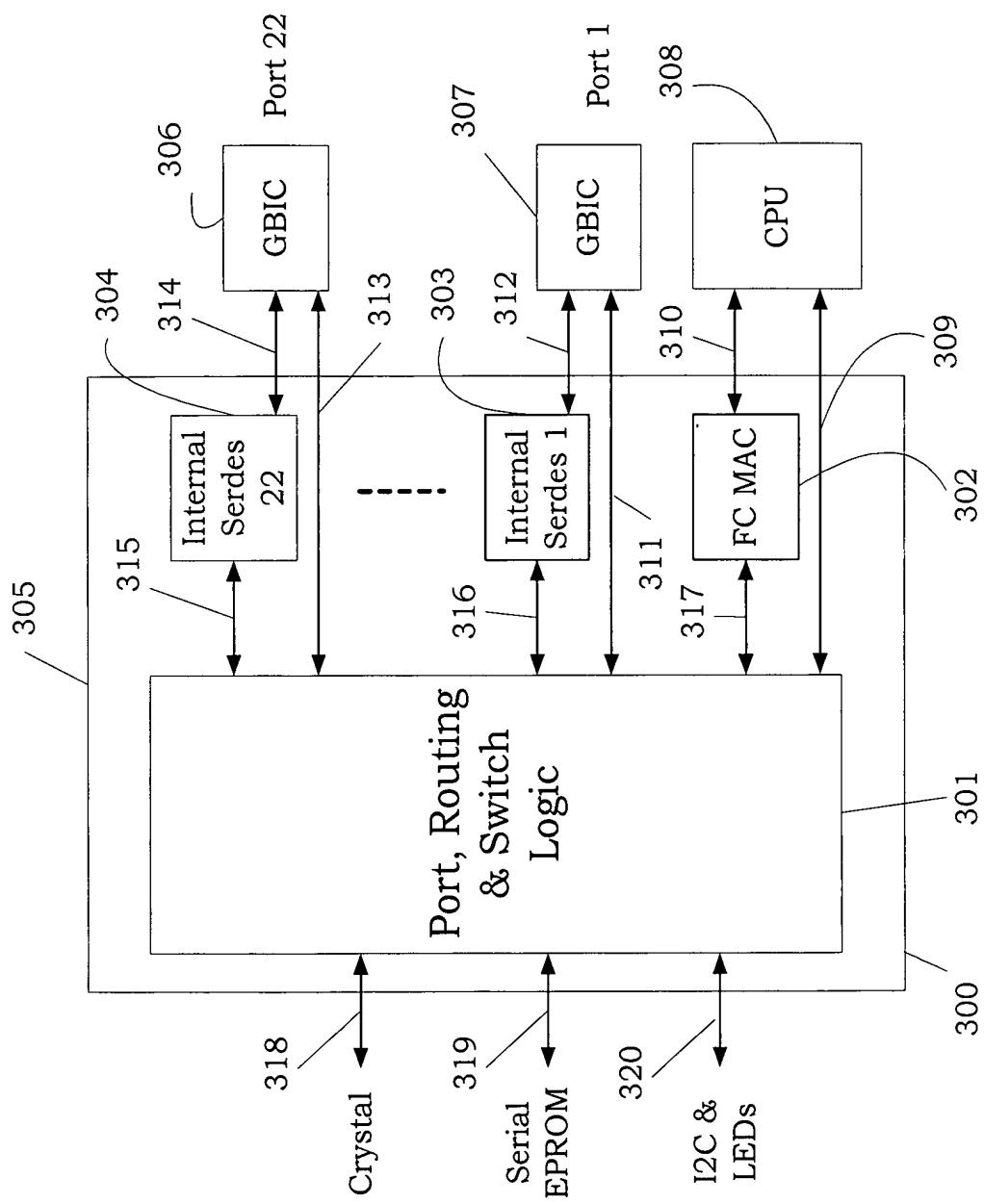


Fig. 7

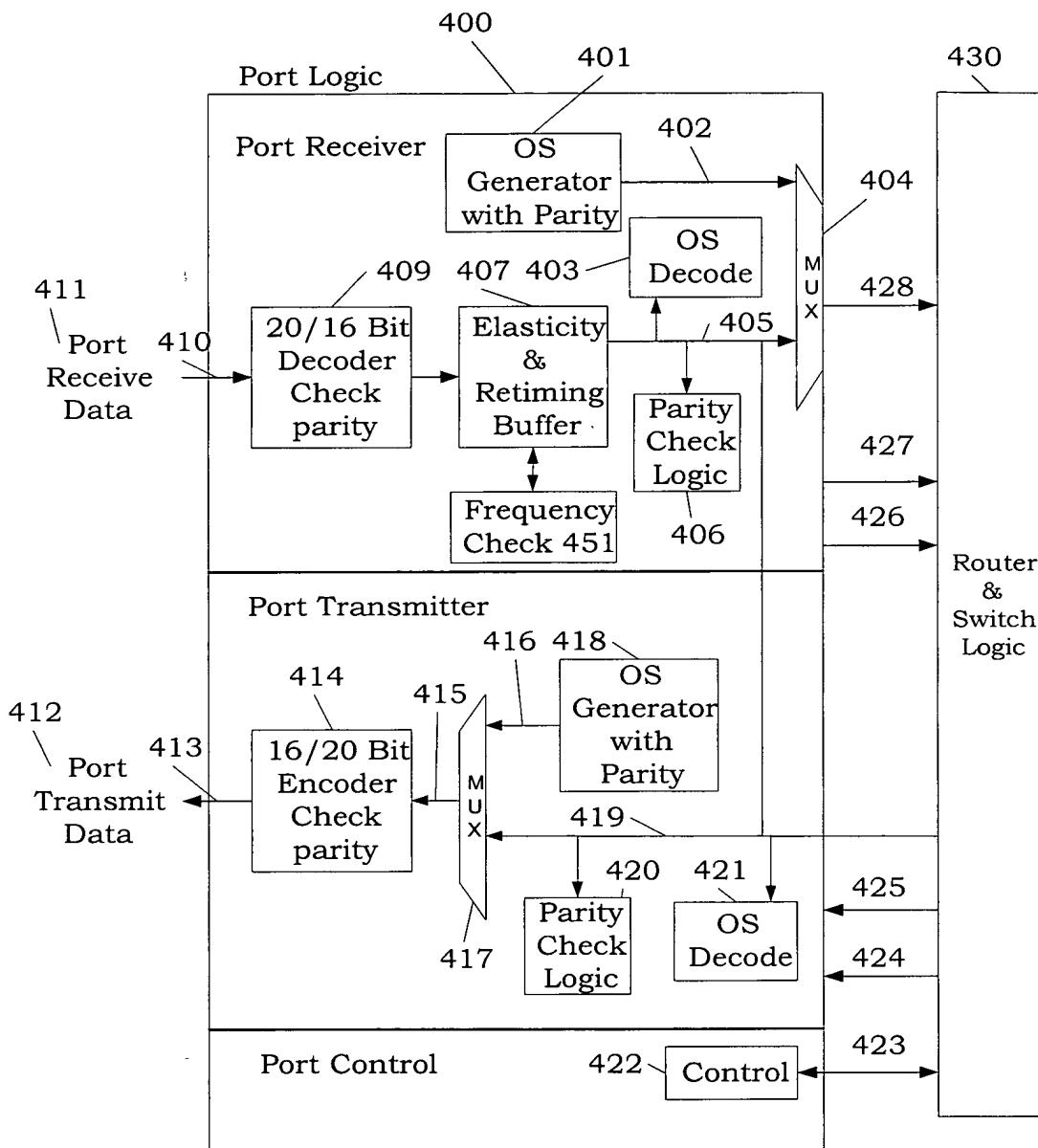


Fig. 8

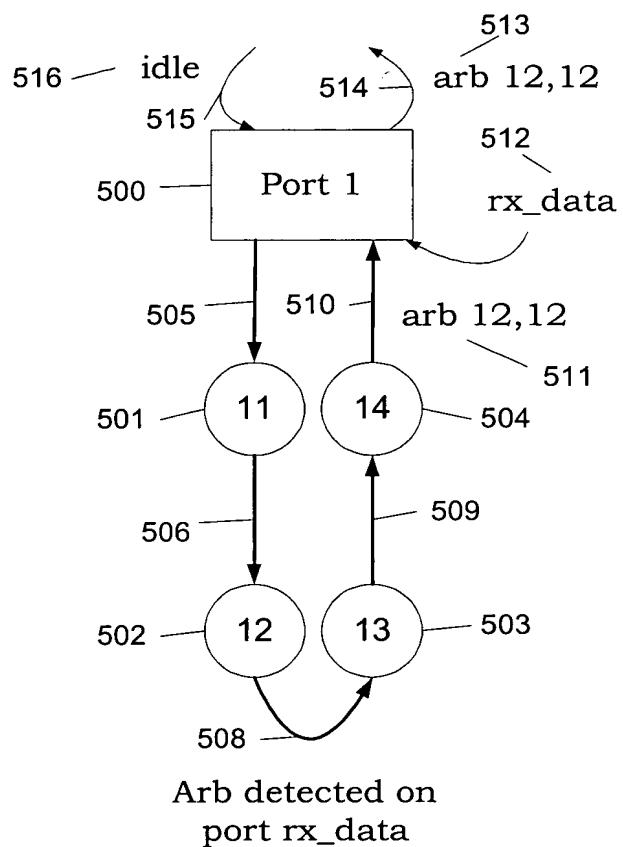
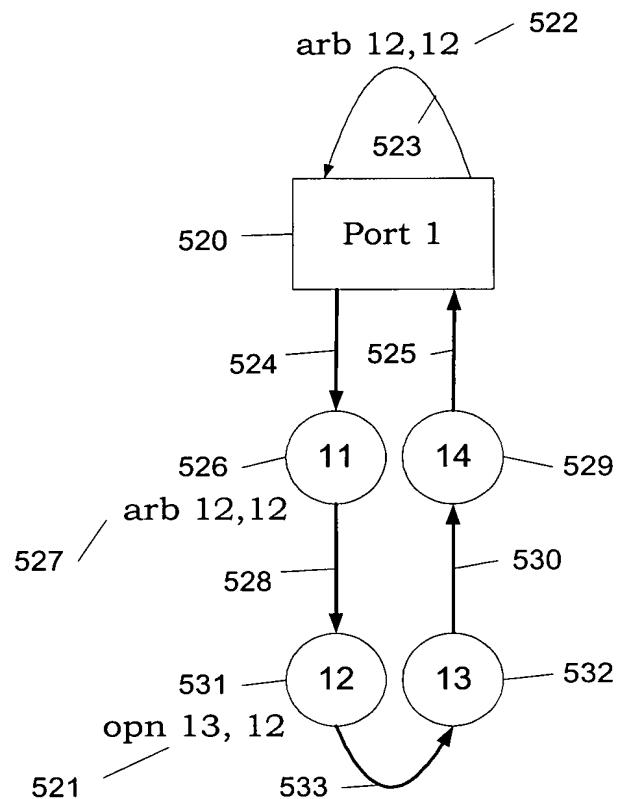
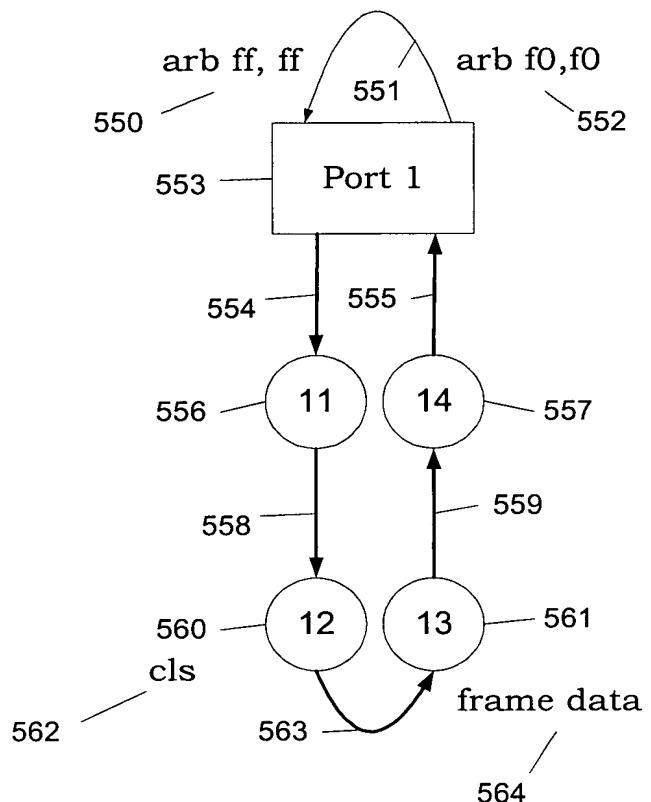


Fig 9a



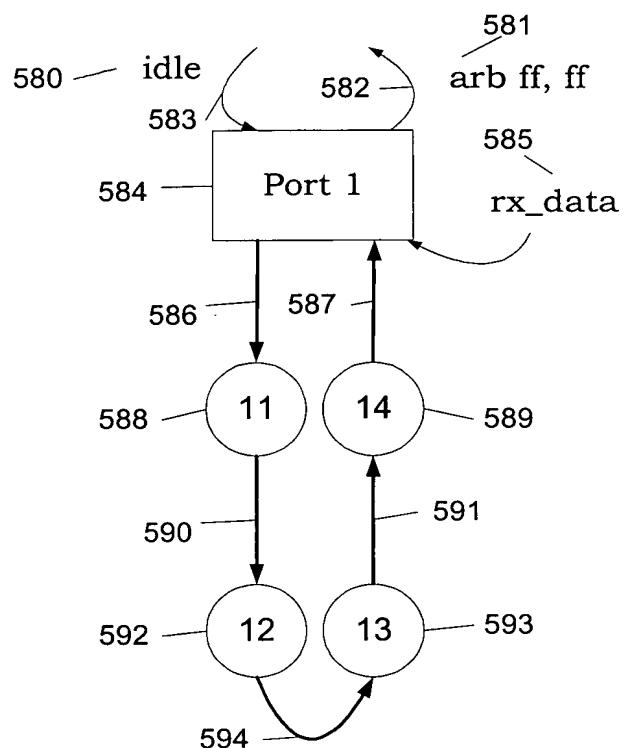
Connection established.
Open sourced

Fig 9b



Arbf0 replaced with Arbff. Data Transferred.
Close sourced.

Fig 9c

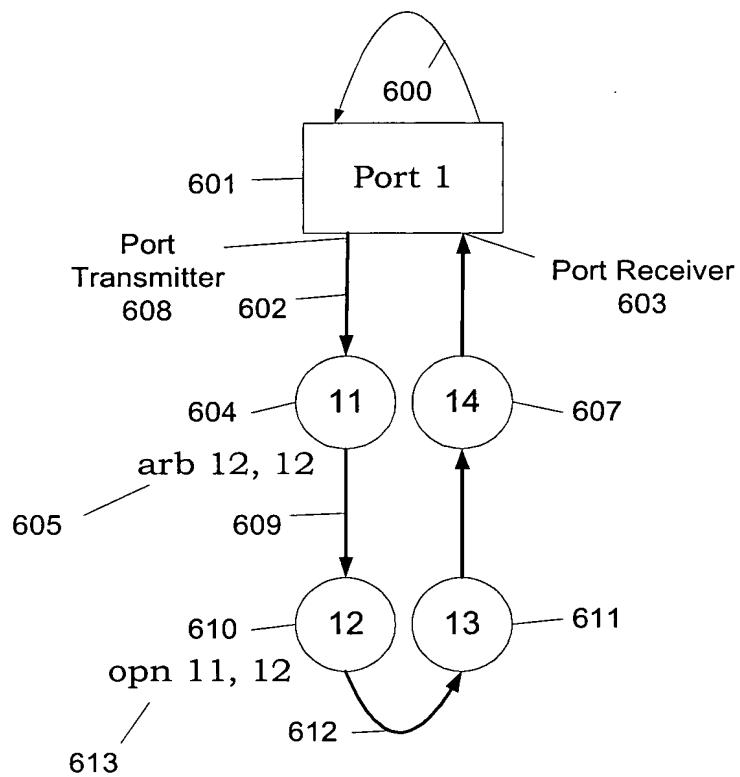


Arbff detected on port rx_data.
Disconnect. Source idles

Fig 9d

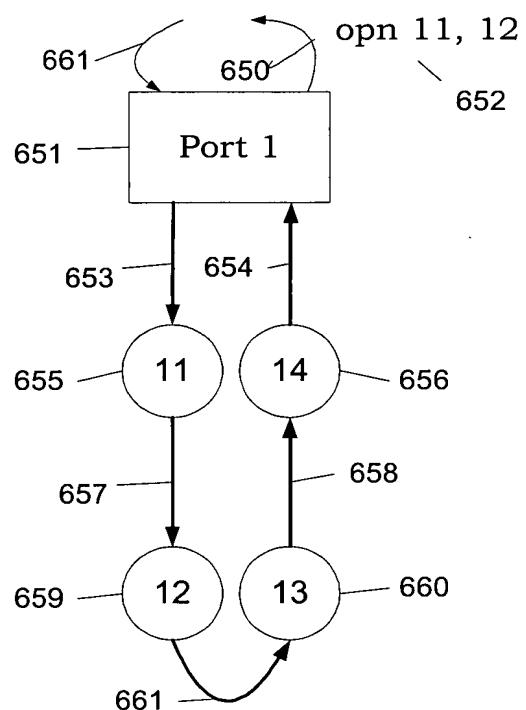


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Arbs forwarded. Open sourced.

Fig 10a



Open detected at port receiver.

Port receiver holds open.

Provides ALPA to router and asserts opn_connect_req.

Fig 10b

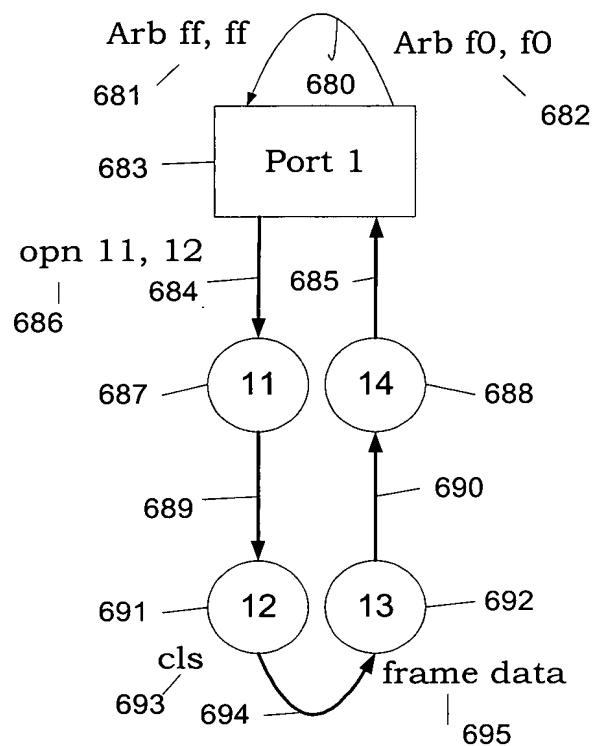
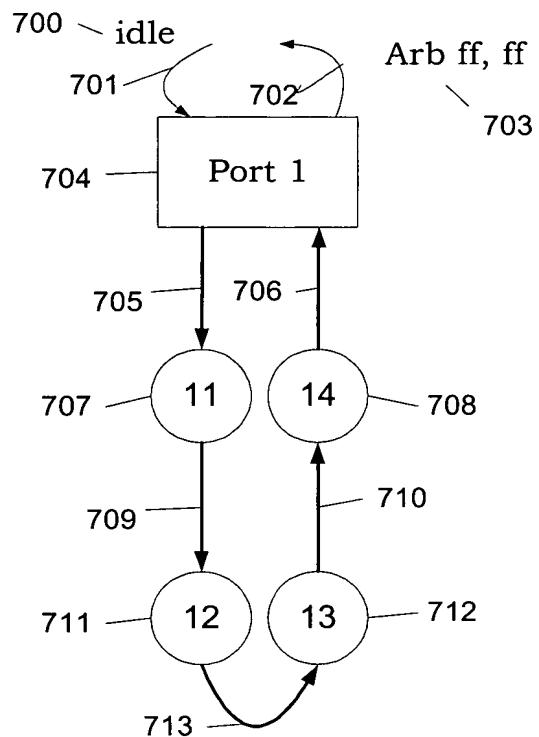


Fig 10c

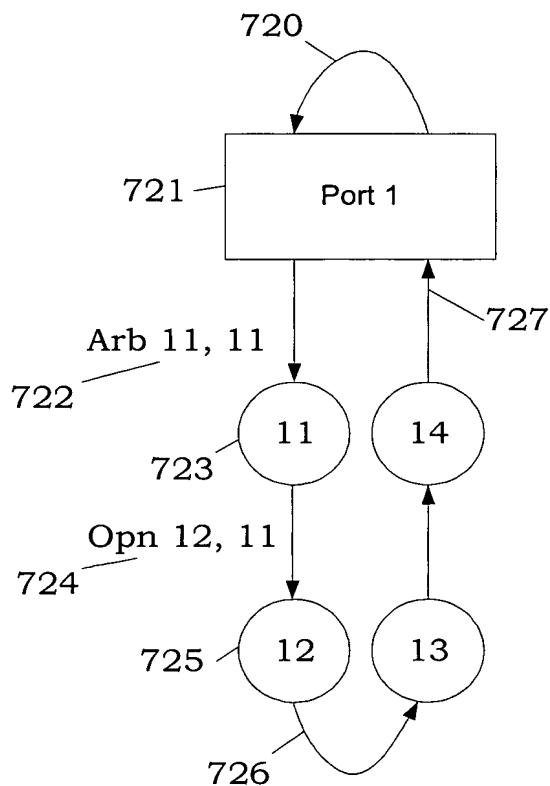


Arbff detected on port rx_data. Disconnect. Source idles.

Fig 10d

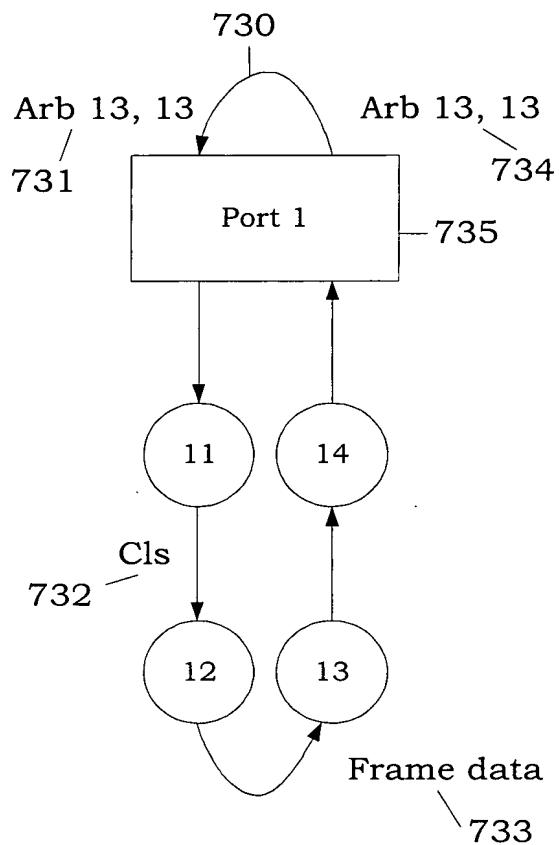


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Arbs forwarded.
Open Sourced.

Fig 11a

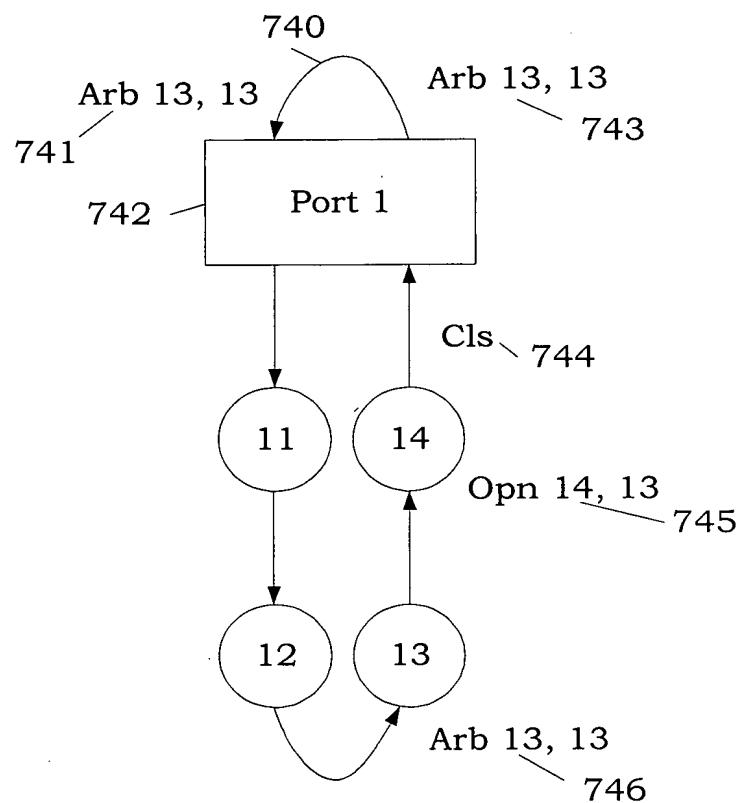


Arb 13 forwarded.

Data Transferred.

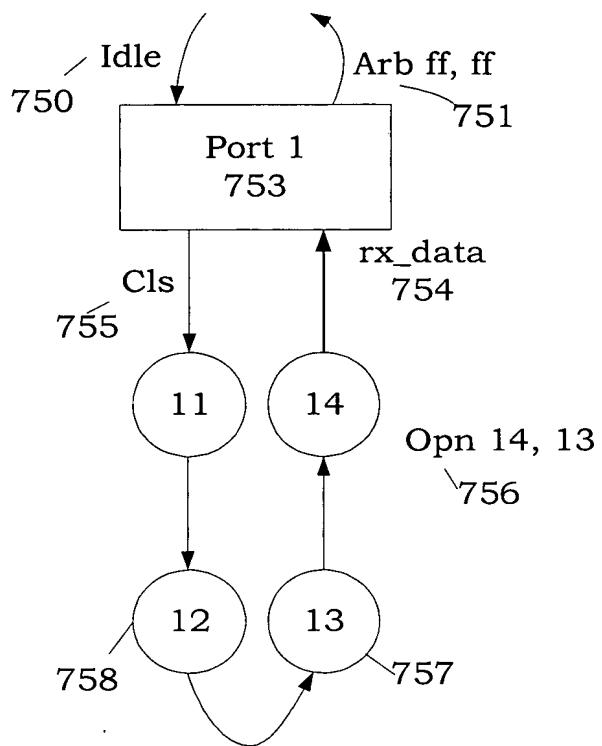
Close sourced.

Fig 11b



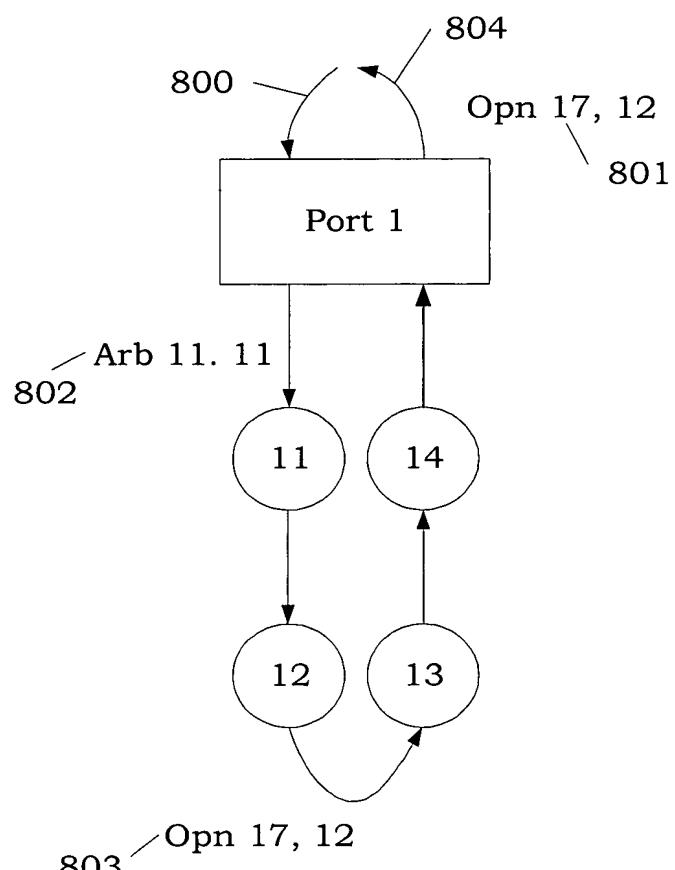
Close forwarded by node 12.
Arb 13 received by node 13.
Open sourced by node 13.

Fig 11c



Close source by node 13.
Forwarded by node 12.
Arb ff Detected on port rx_data.
Disconnect.
Source idles.

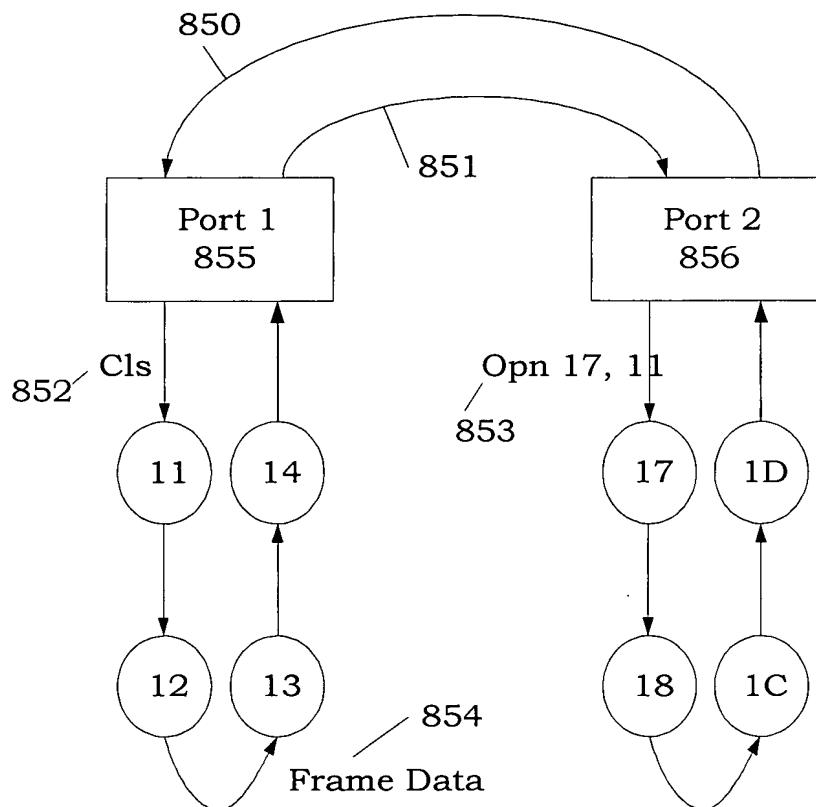
Fig 11d



Arbs forwarded.

Open sourced.

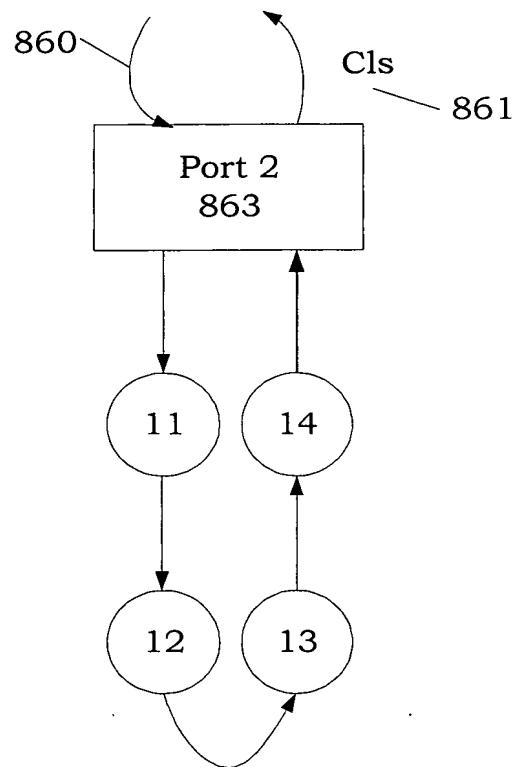
Fig 12a



Open forwarded to Port 2.
Data transferred.
Close sourced.

Open received from Port 1.
Data received.
Close forwarded.

Fig 12b



Close detected at
transmitter and receiver.
Connection broken.

Fig 12c



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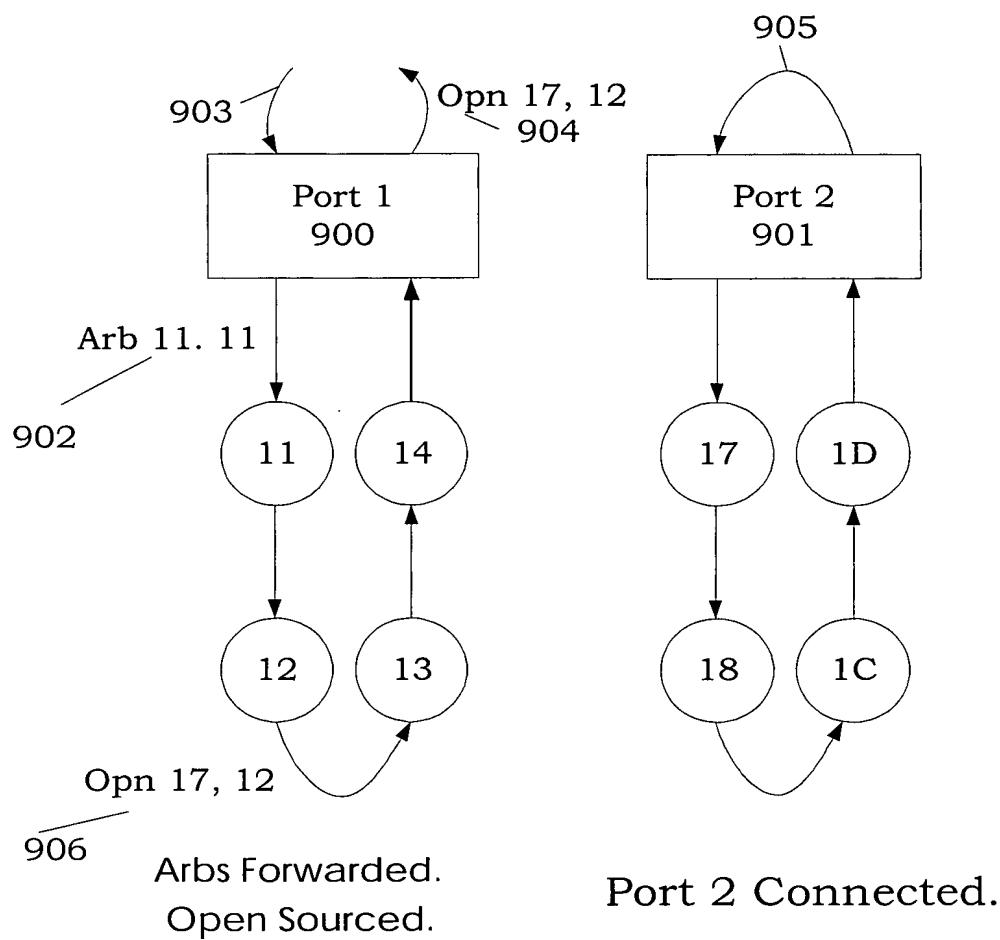
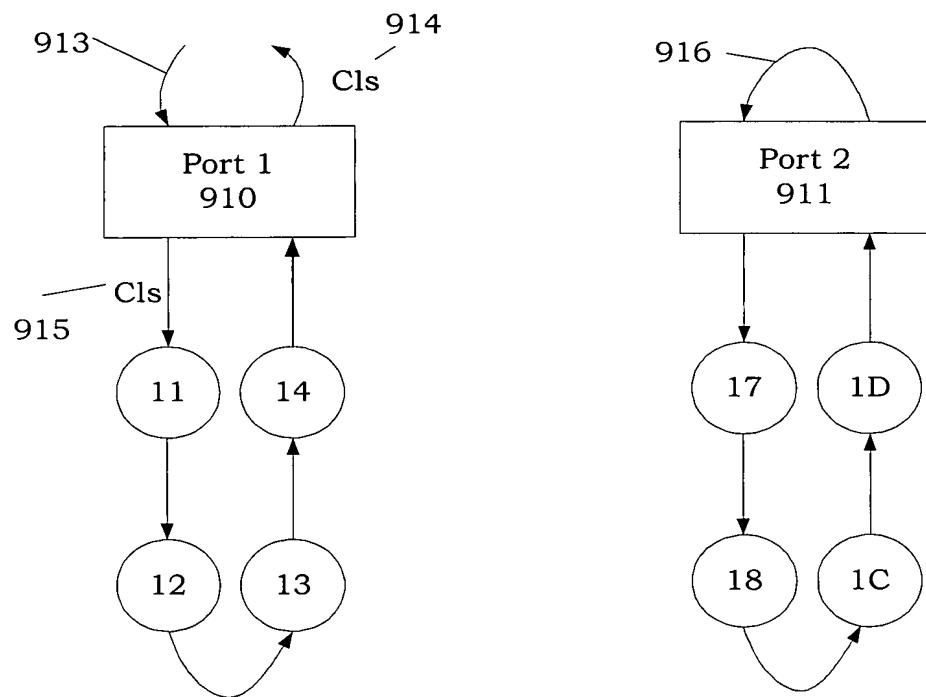


Fig 13a



Cl_s detected at port receiver
from node 12.

Cl_s sourced from port
transmitter.

Port 2 still connected.

Fig 13b

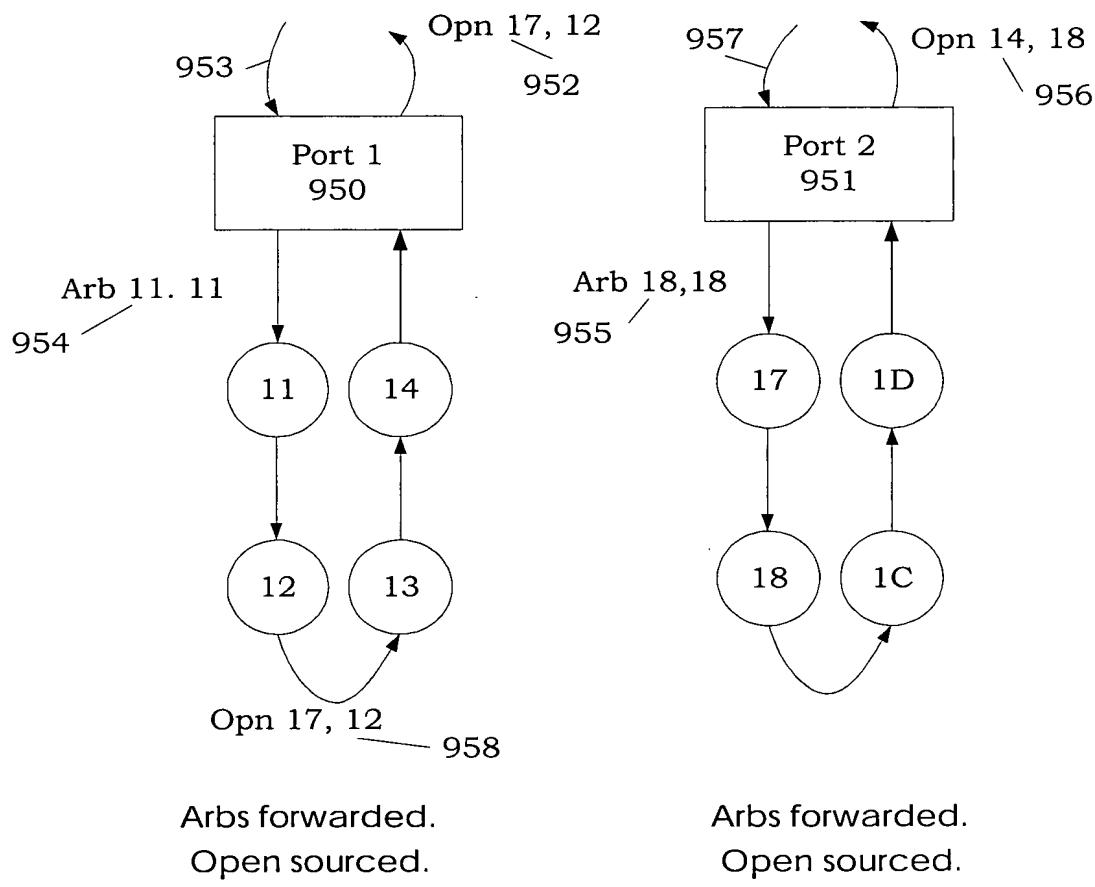
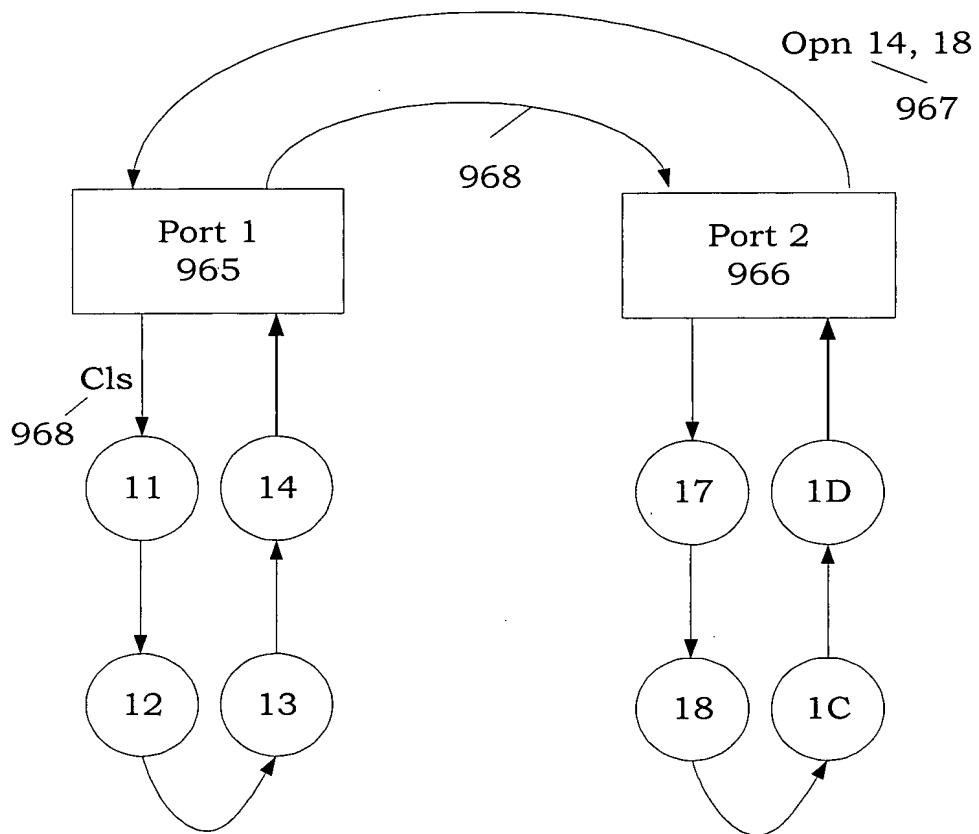


Fig 14a

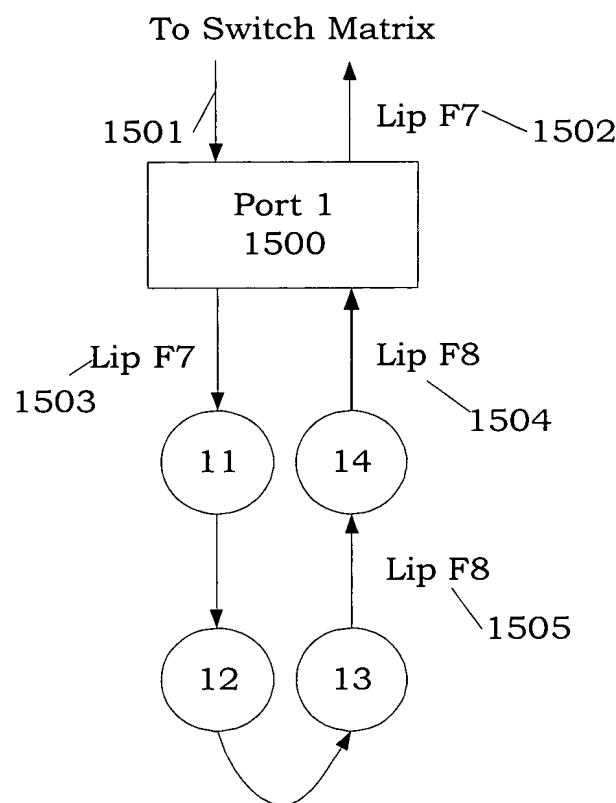


Port 1 connected as
destination port.
Cls sourced from Port 1
transmitter.

Port 2 connected as source Port.
Open sourced from Port 2 receiver.

Fig 14b

Router detects Lip RX'd signal.
Router deasserts switched mode signal.

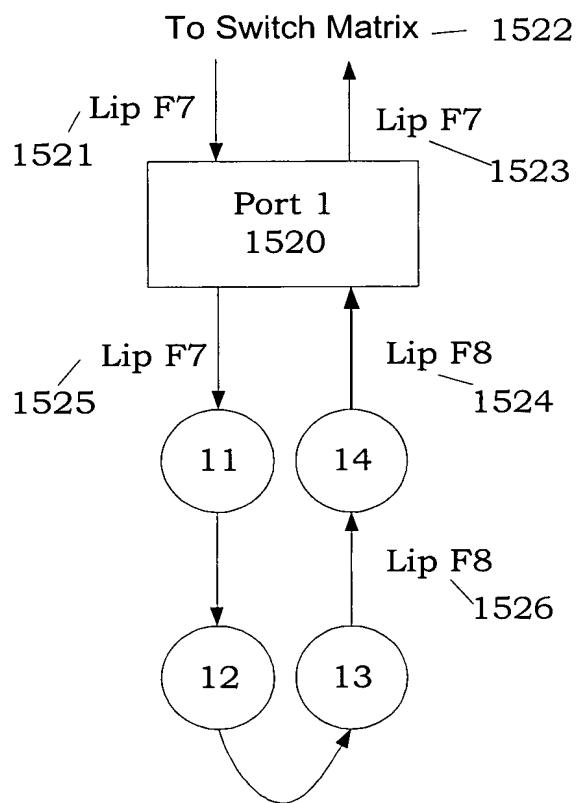


Lip F8 sourced by node 13.
Lip F8 replaced by Lip F7 at port receiver.
Lip F7 sourced at port transmitter.

Fig 15a



Router detects deassertion of port active.
Router takes port out of operational loop.



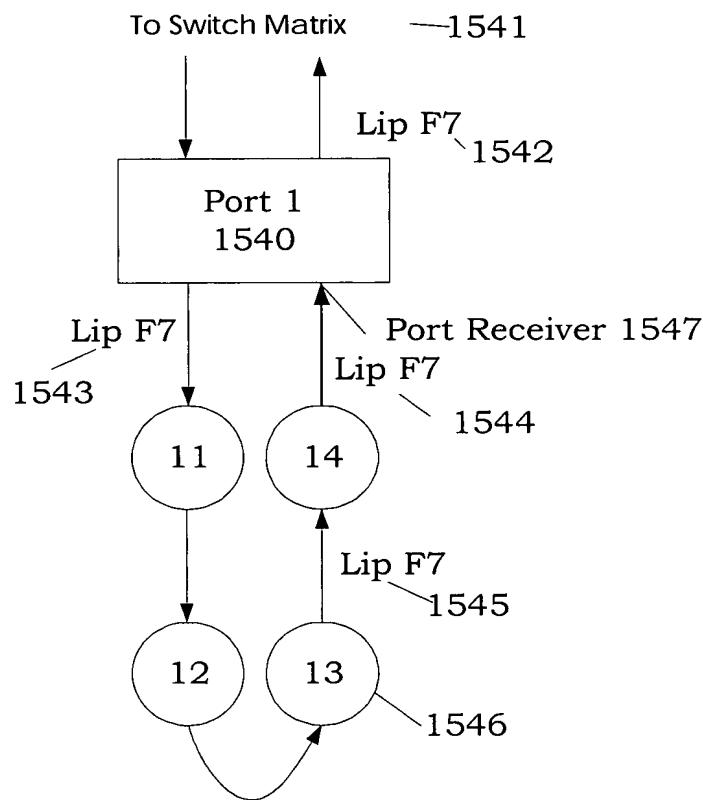
Lip F7 received at port transmitter.
Port deasserts port active signal.

Fig 15b



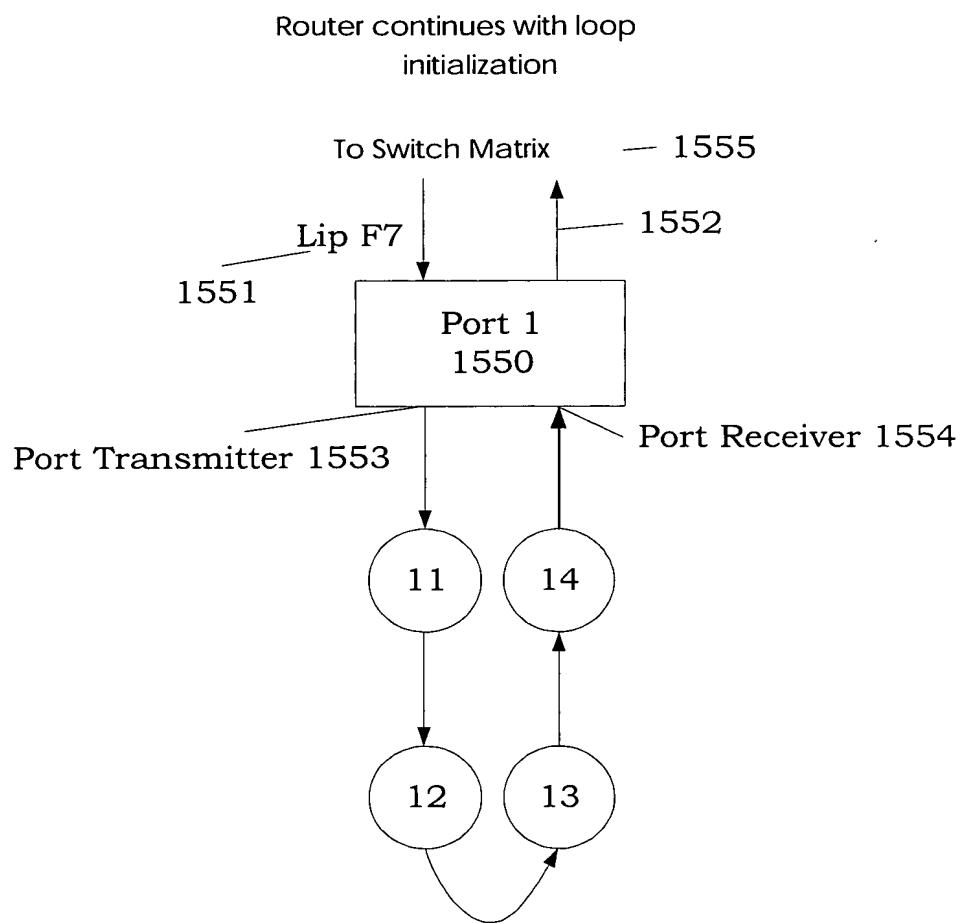
Router detects Lip RX'd signal since port active is now asserted.

Router puts port back into the operational loop.



Node 13 "heals", source Lip F7.
 Lip F7 received at port receiver.
 Port asserts Port_Active.

Fig 15c



Port detects Lip F7 at port transmitter.
Port stops sourcing Lip F7 at port receiver.
Port stops sourcing Lip F7 at port transmitter.

Fig 15d

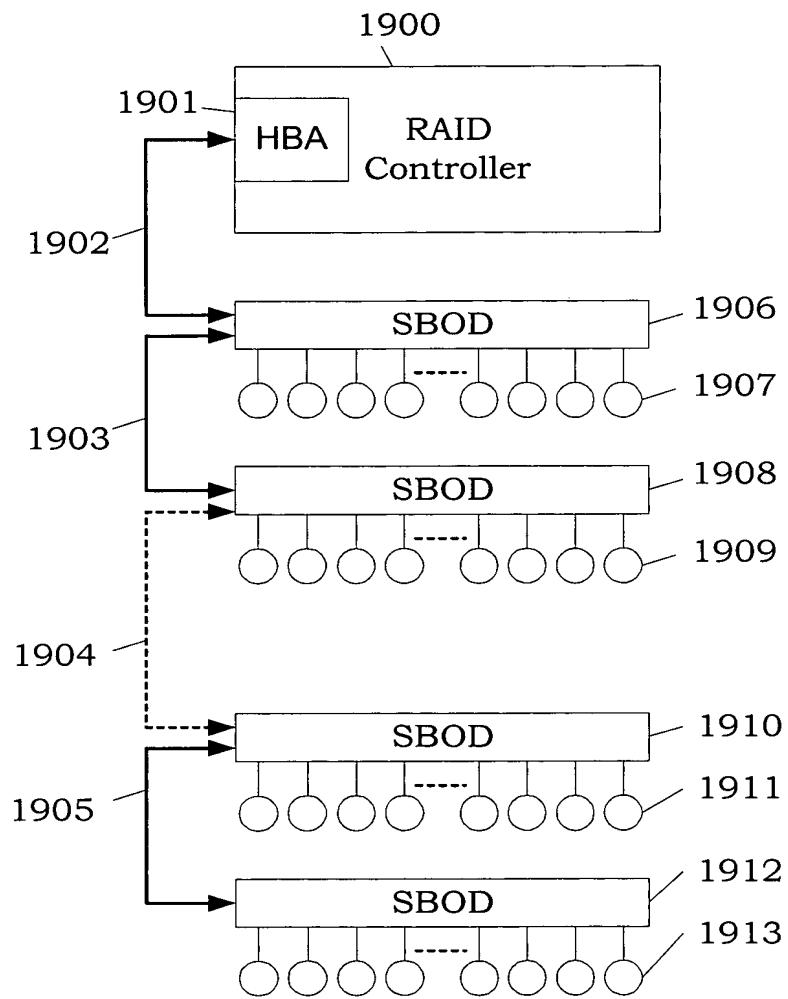


Fig. 16a

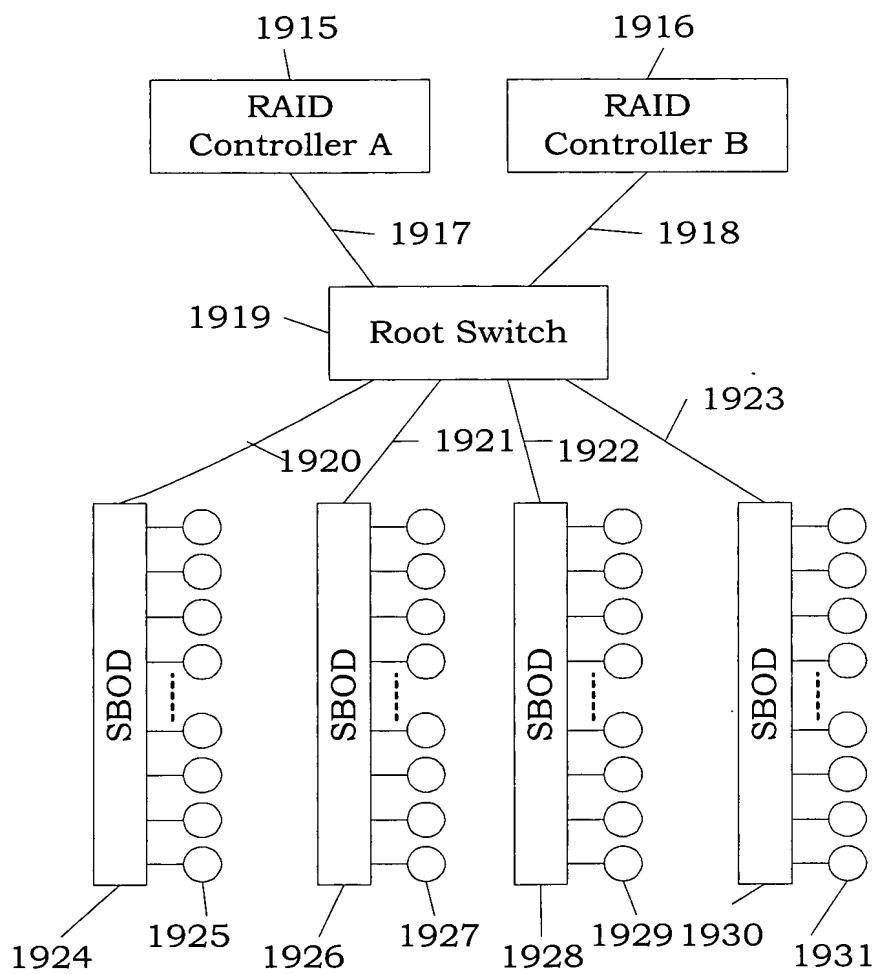


Fig. 16b

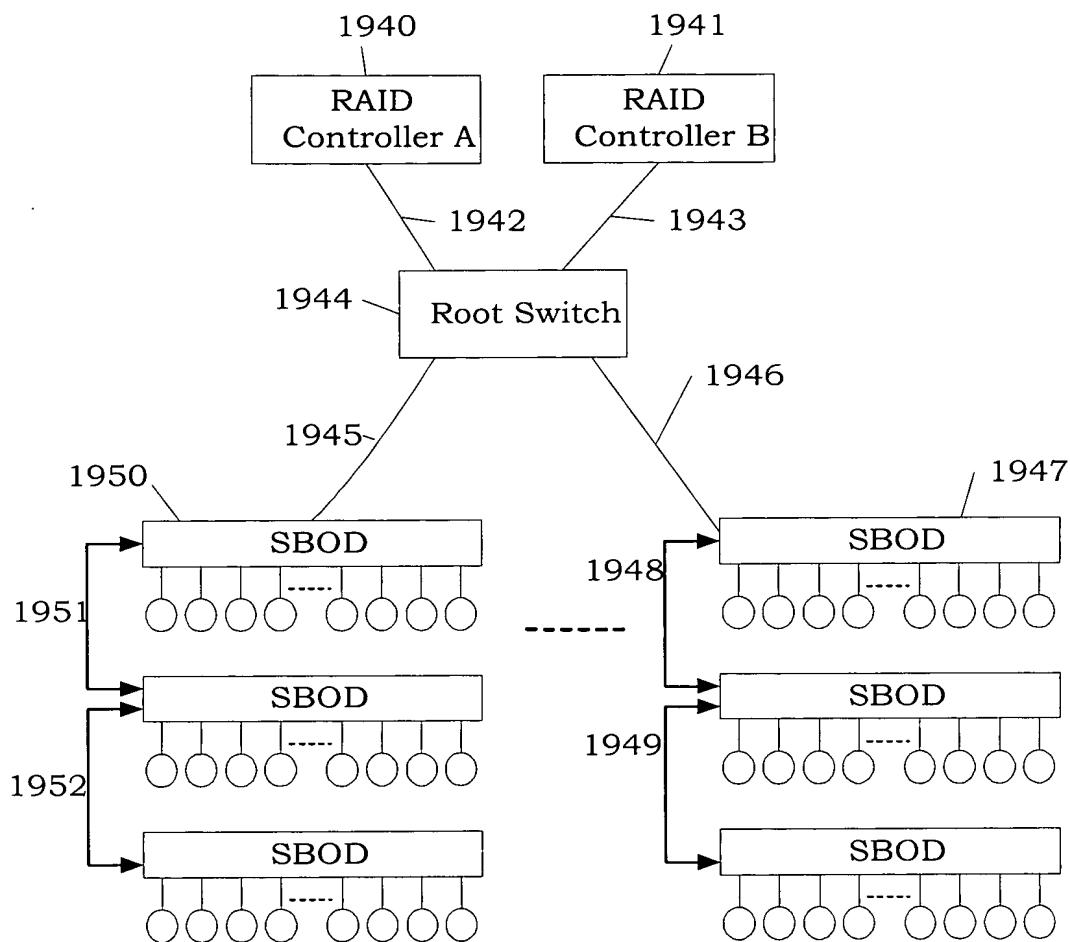


Fig. 16c

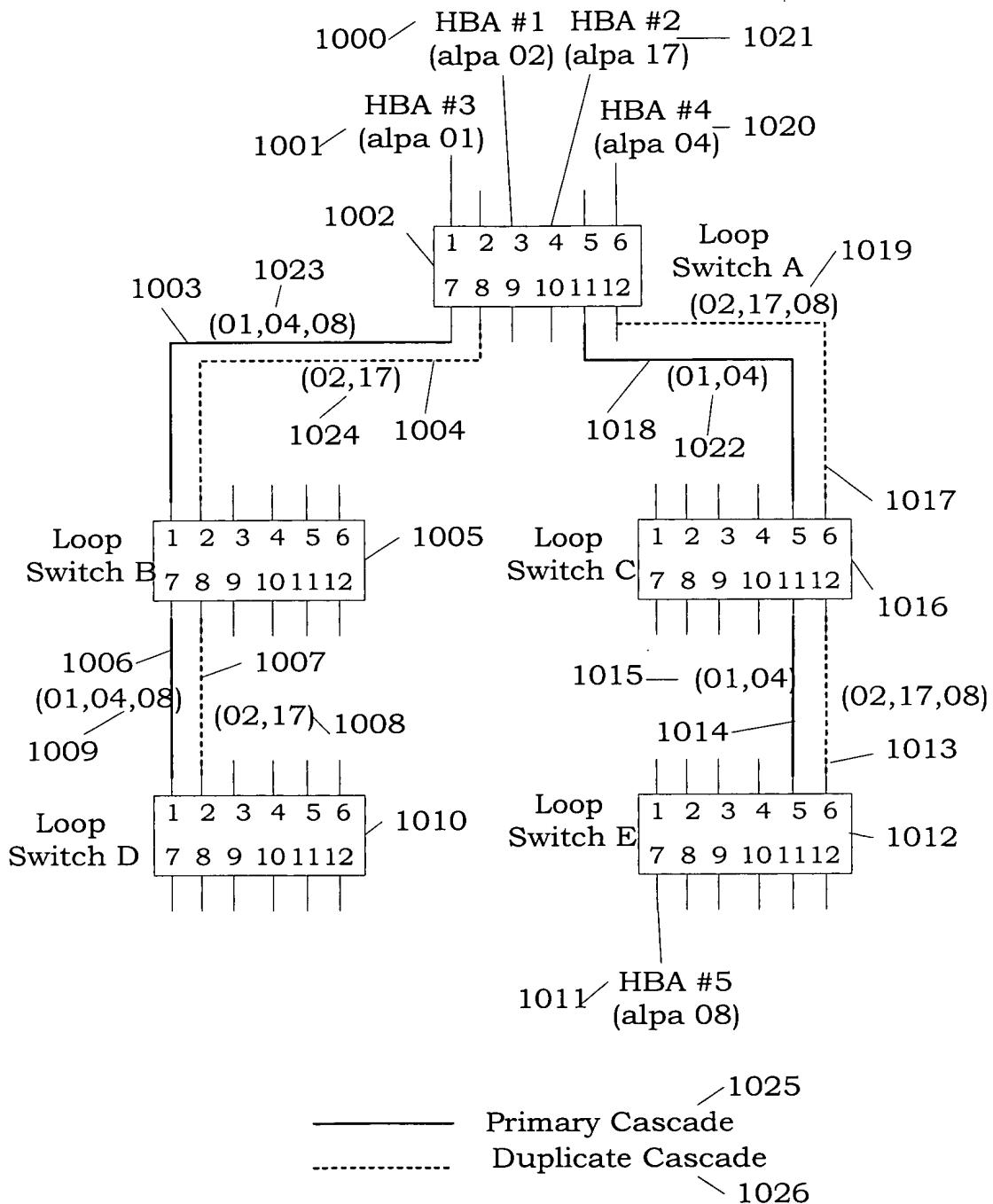


Fig. 17

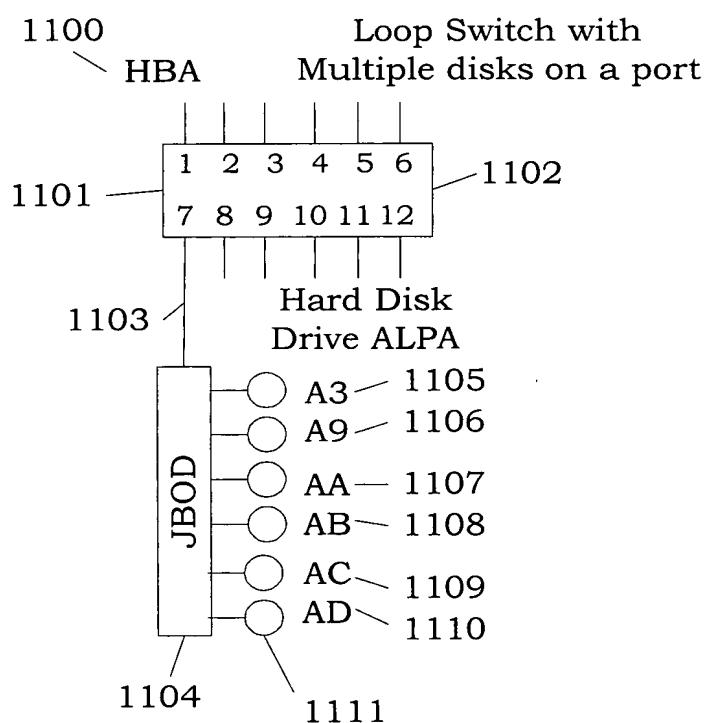
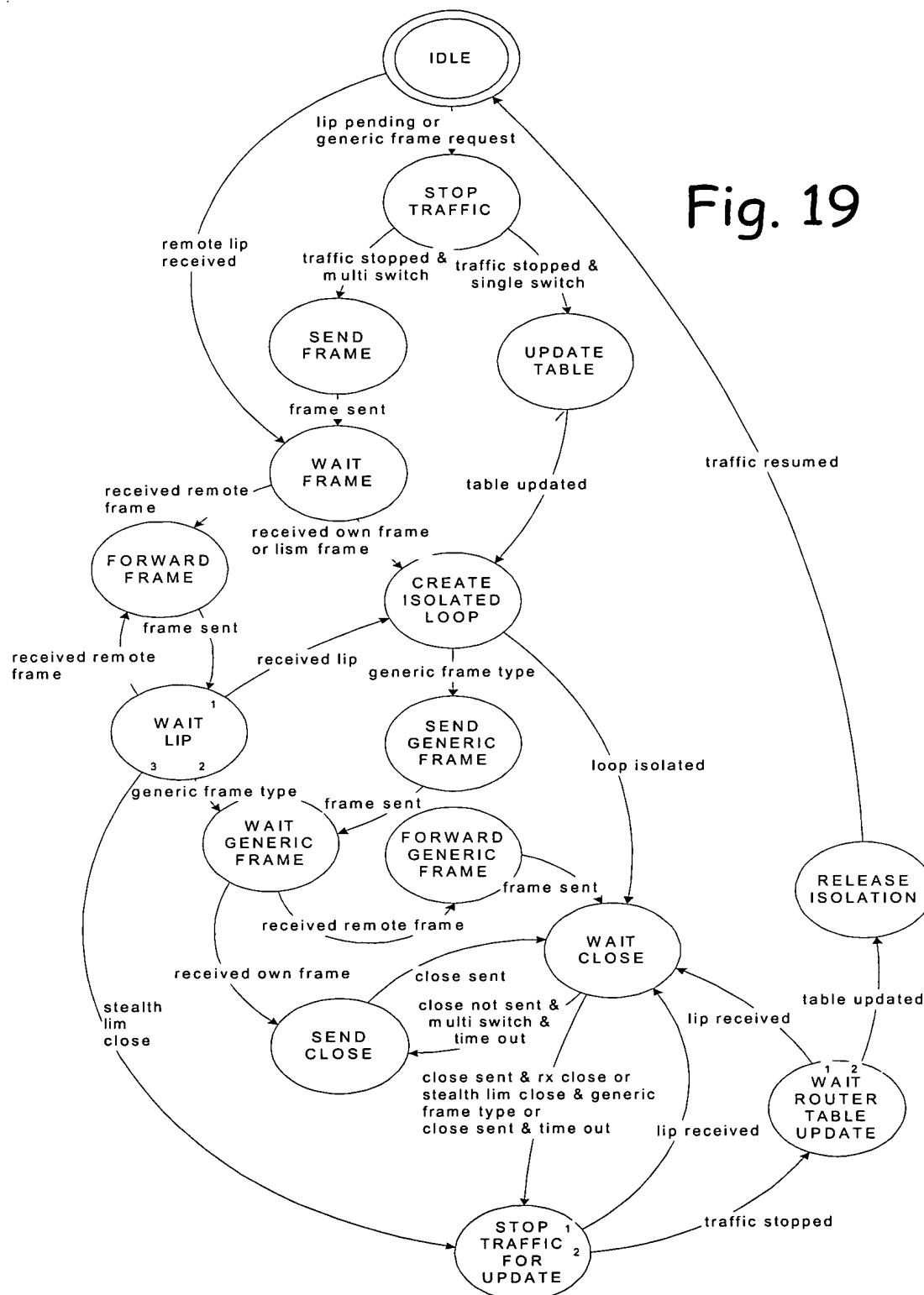


Fig. 18





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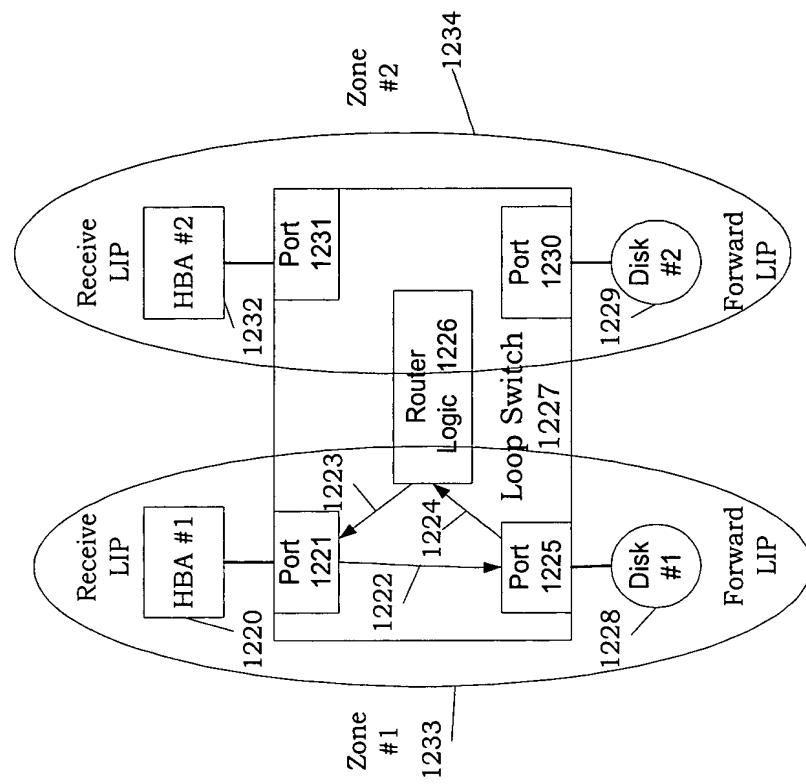


Fig. 21

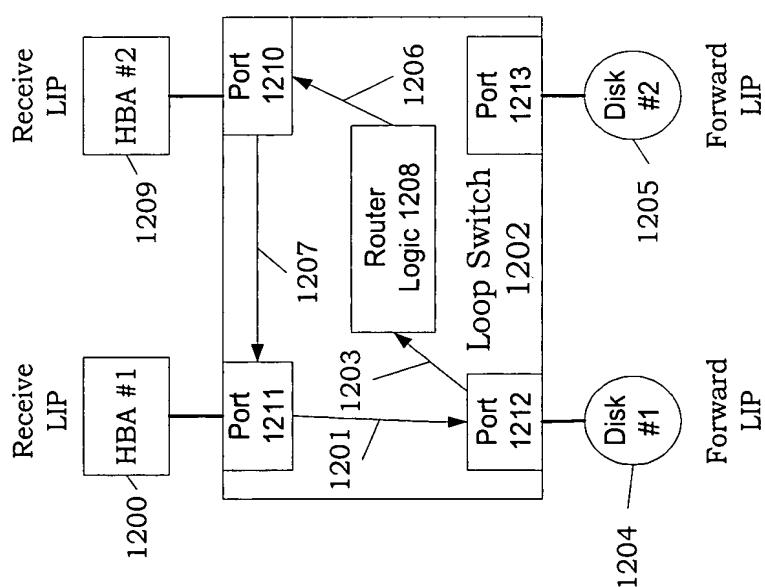


Fig. 20

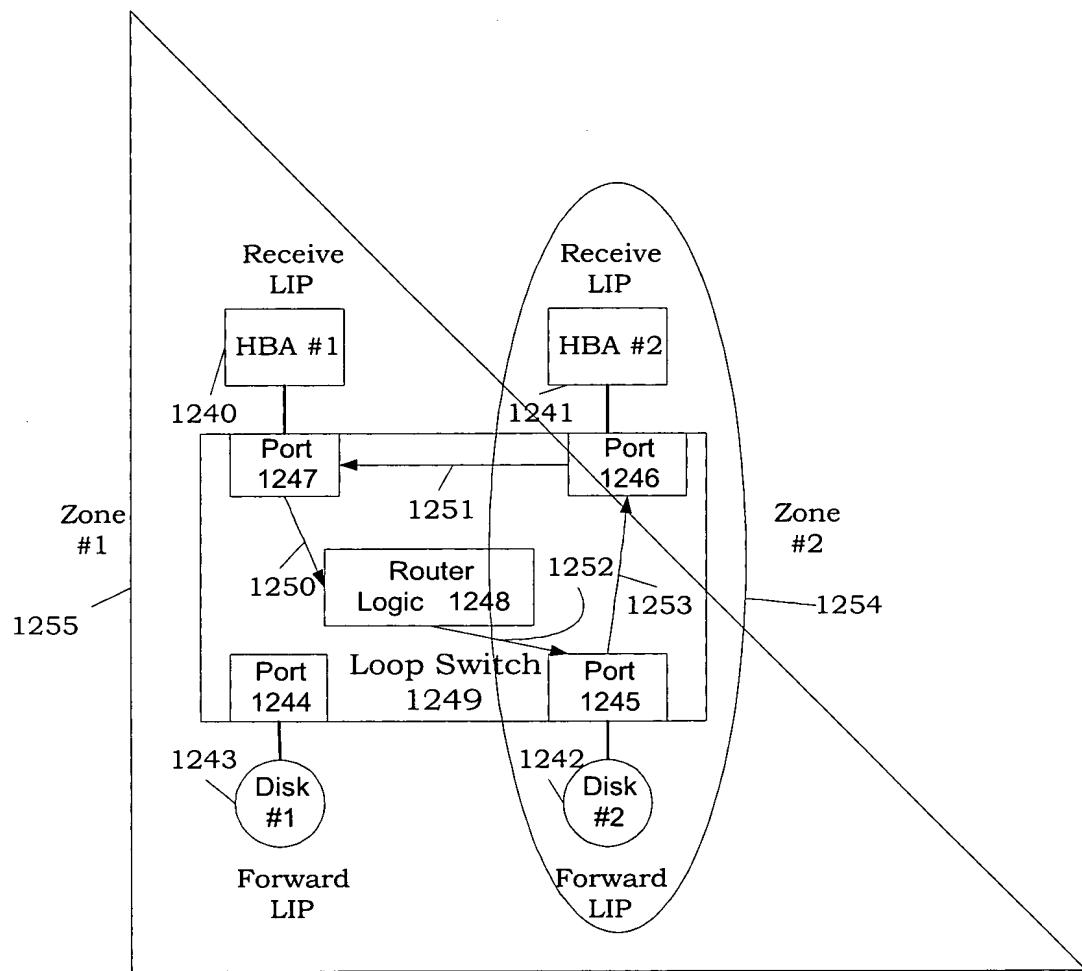


Fig. 22

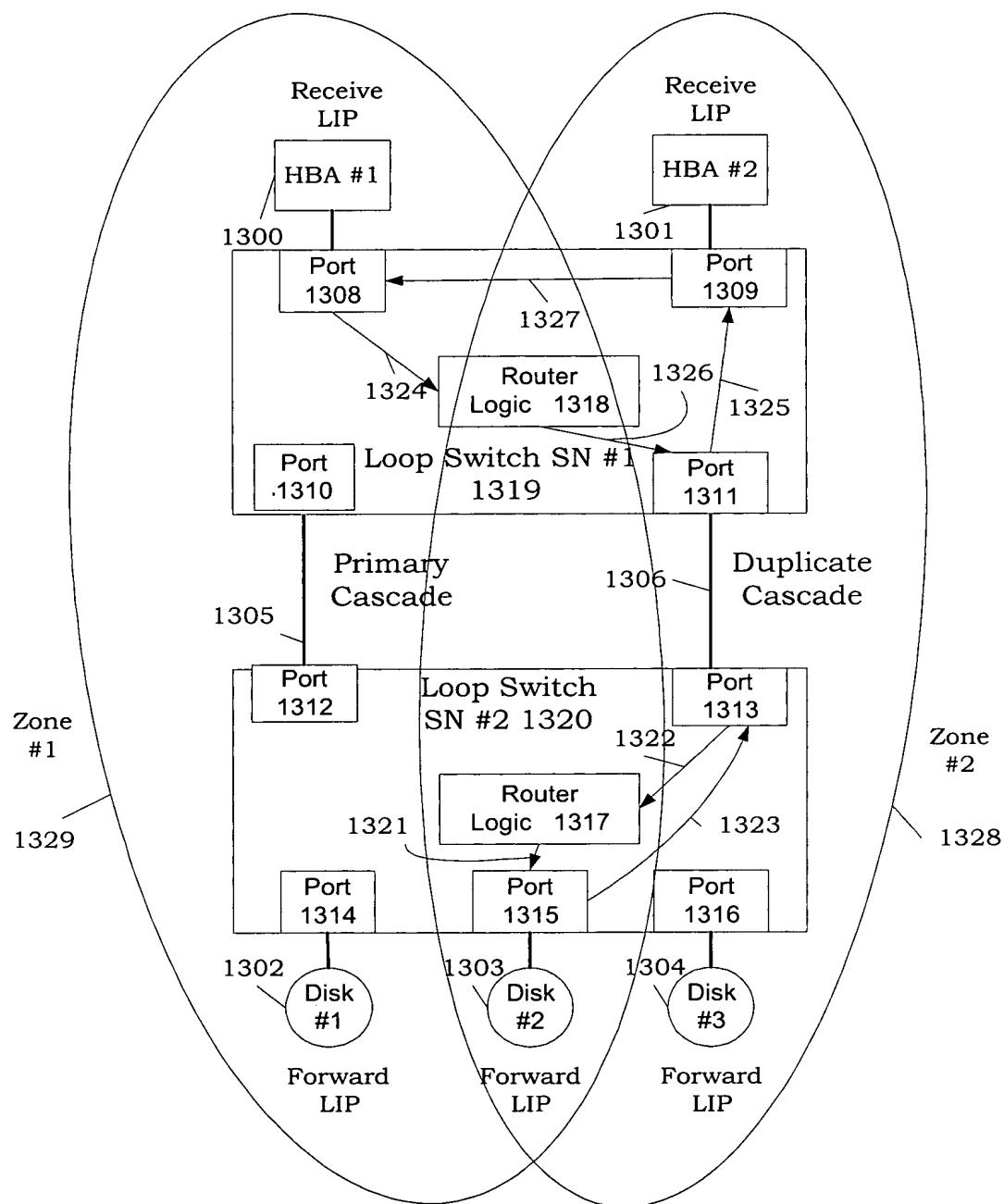


Fig. 23

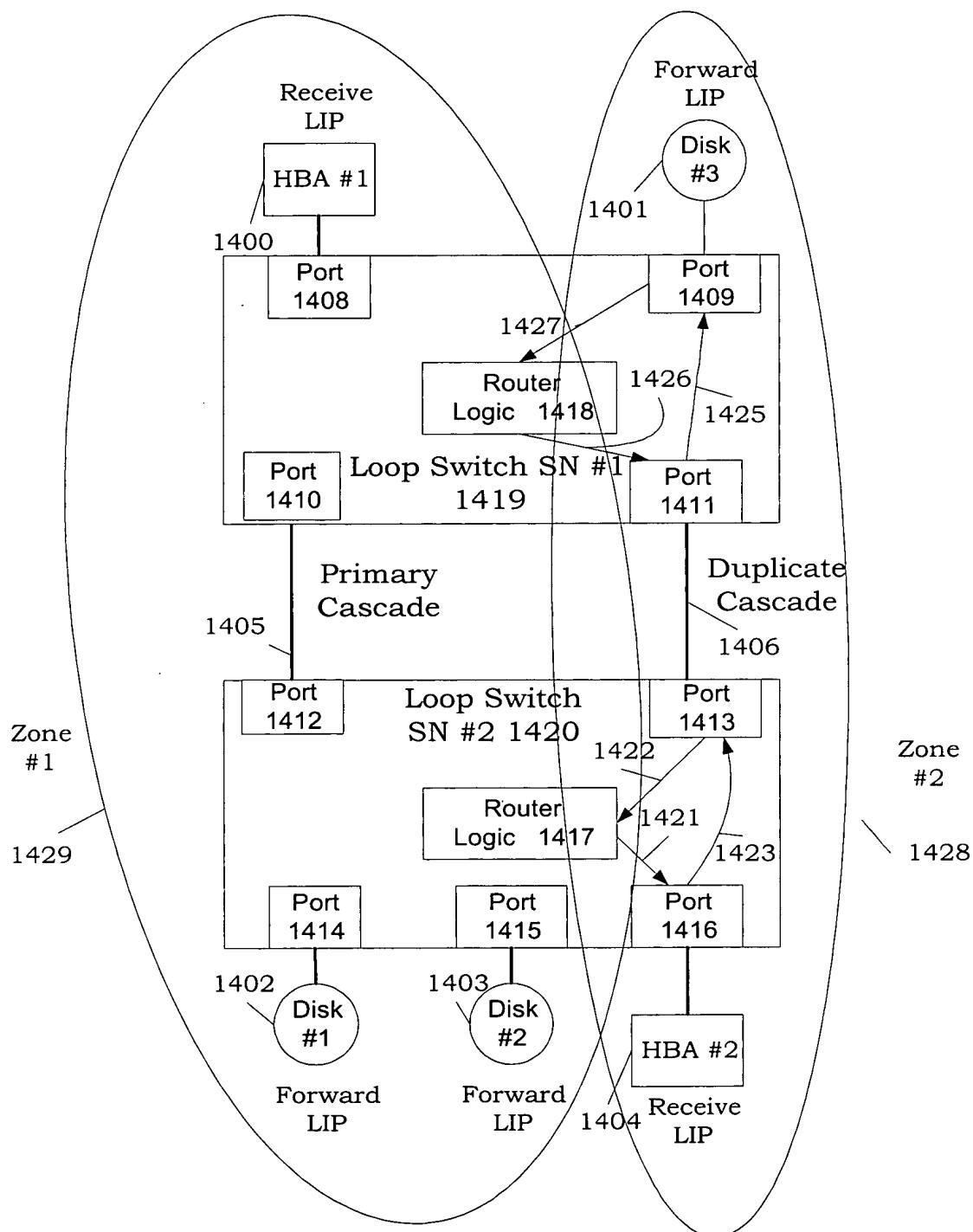


Fig. 24

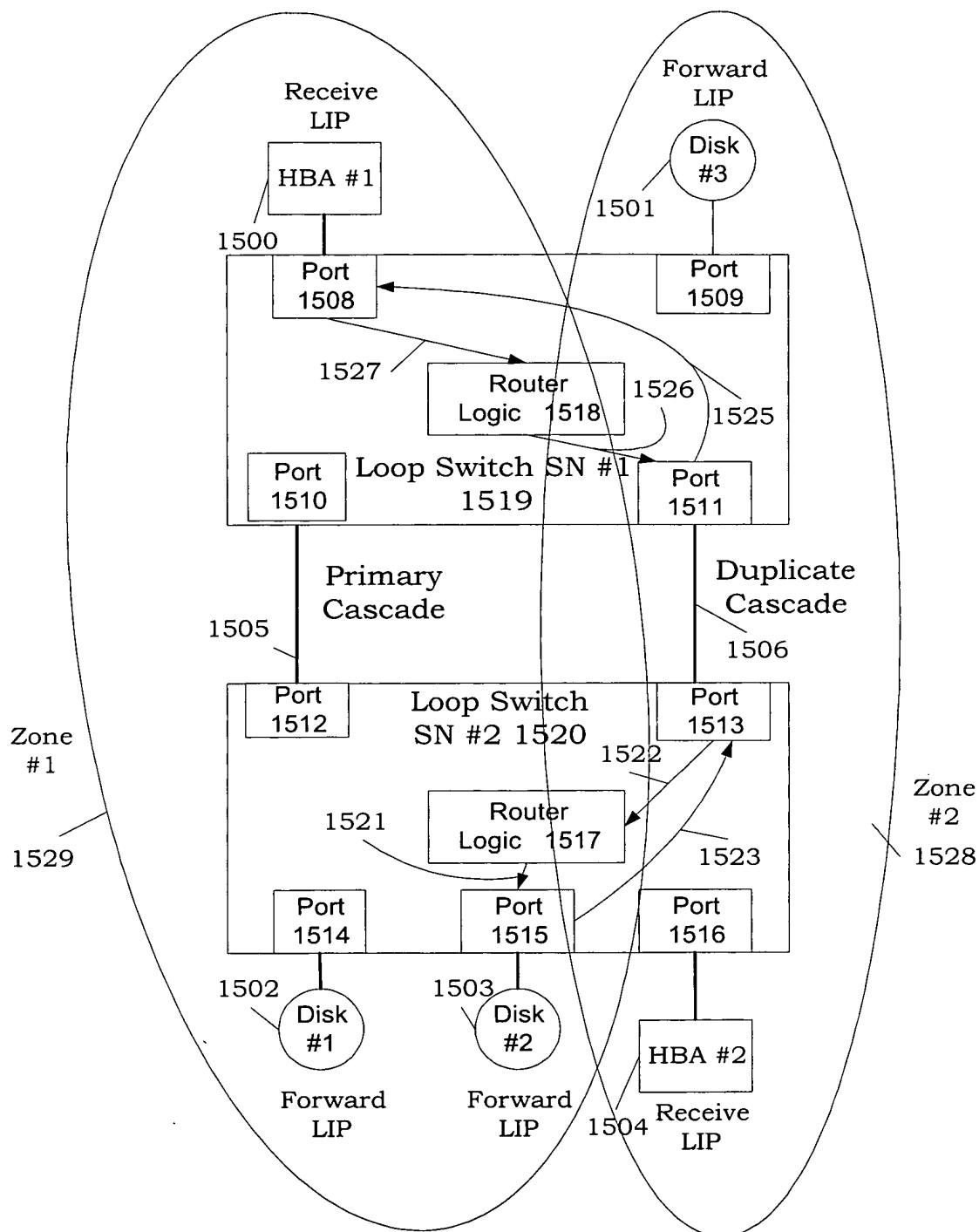


Fig. 25

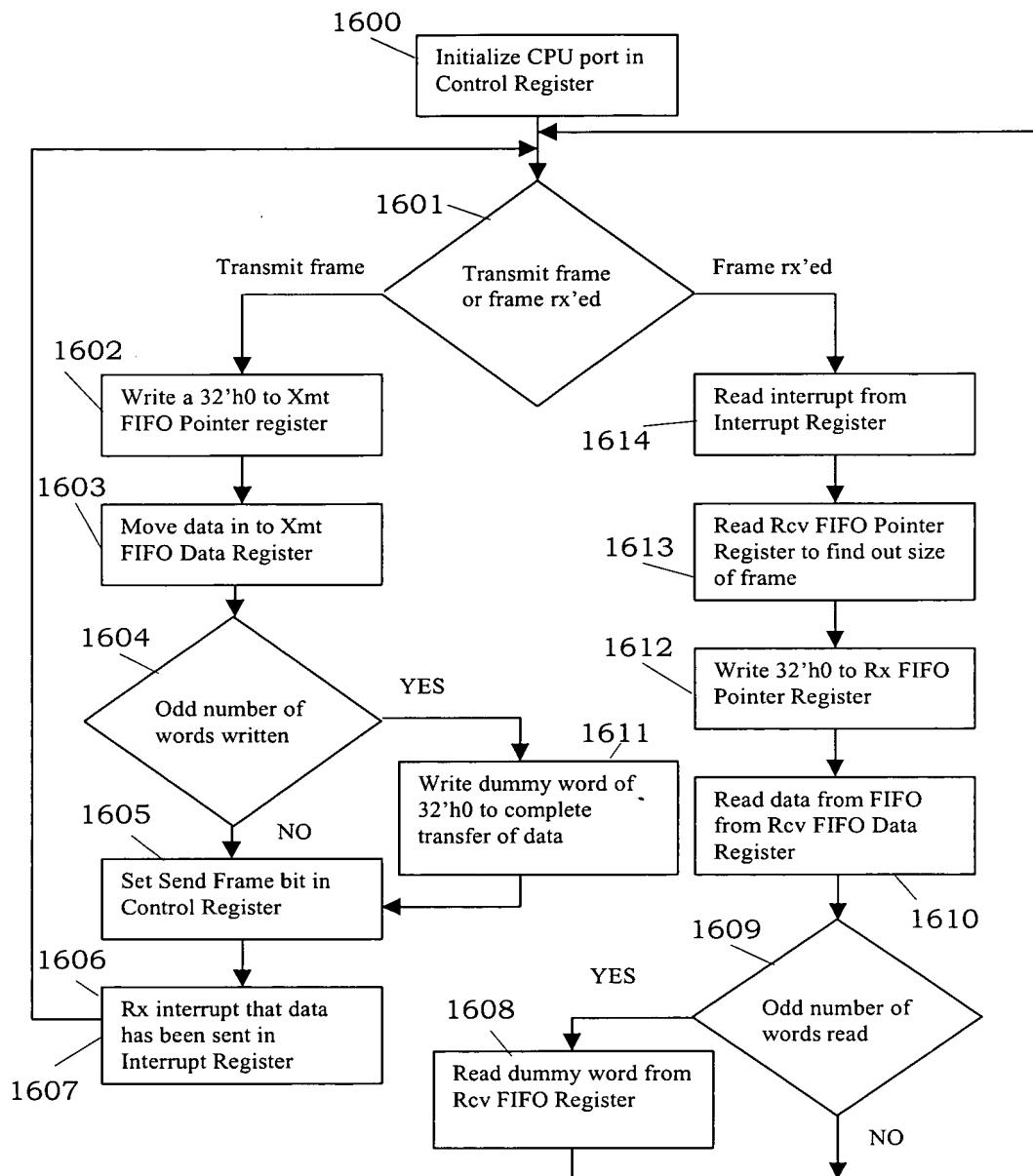


Fig. 26

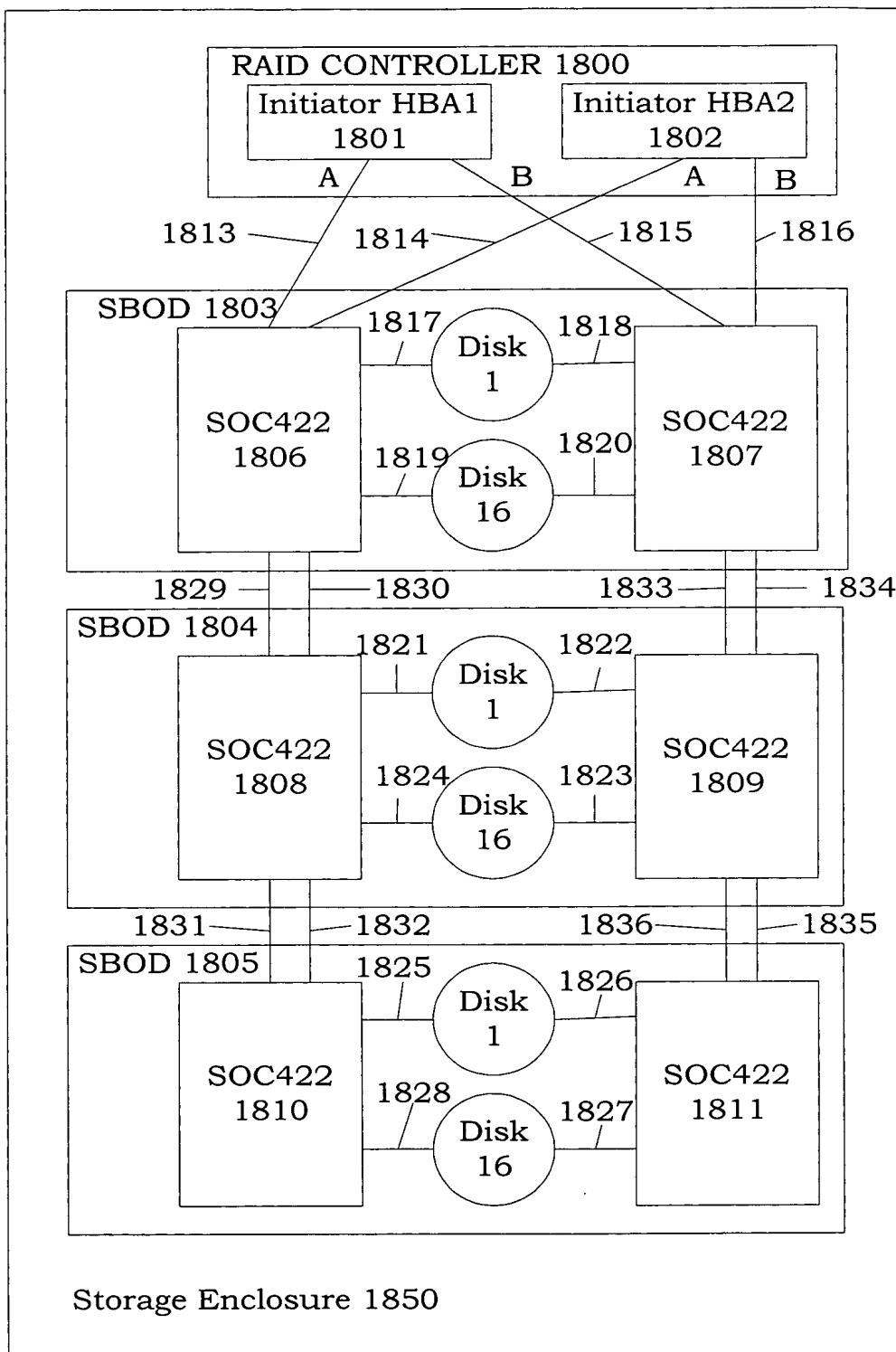
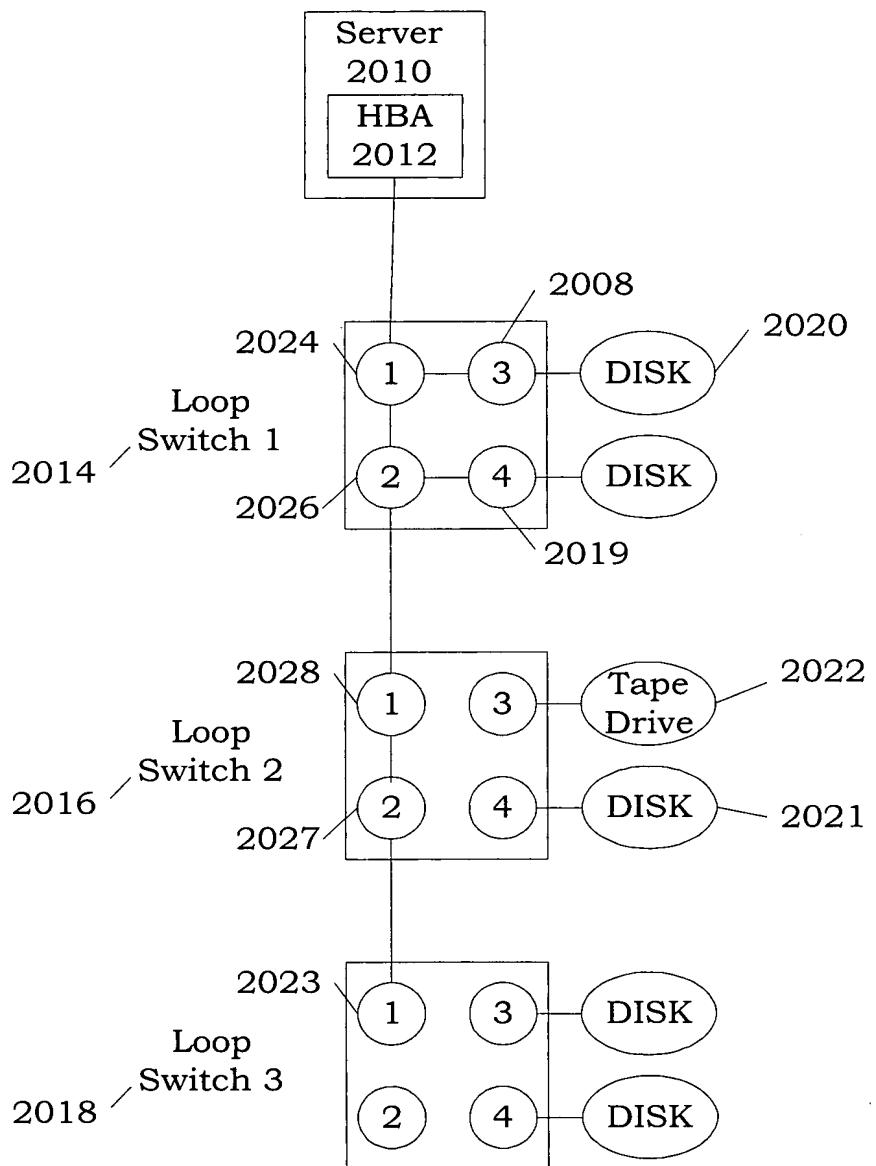
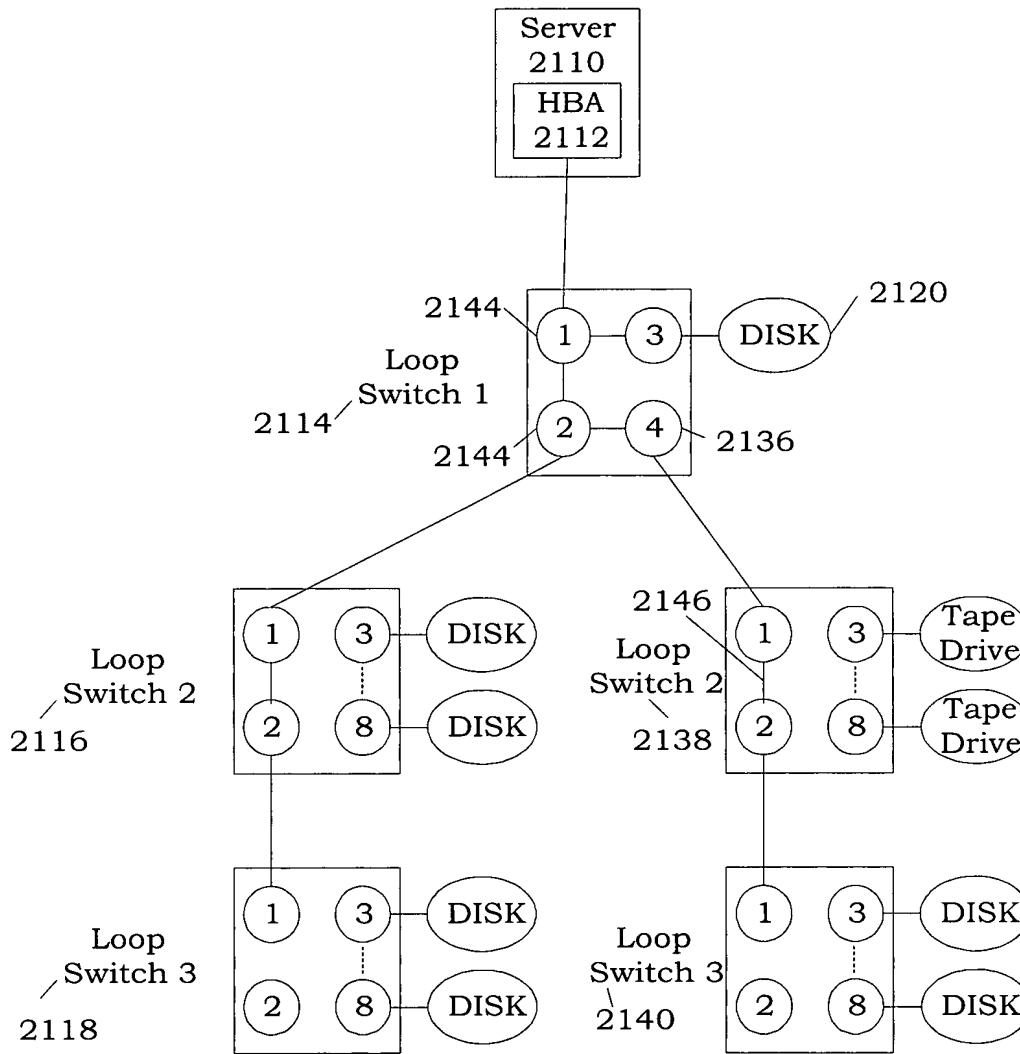


Fig. 27



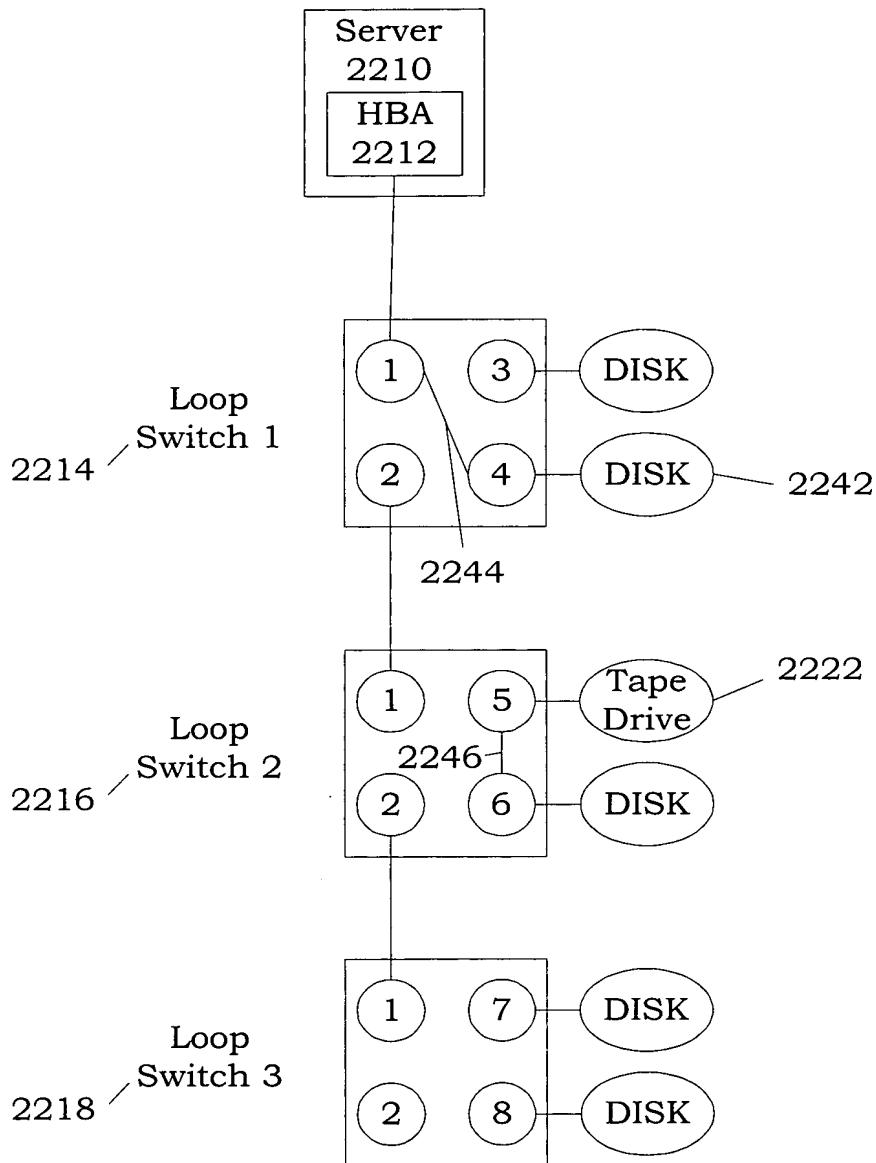
DISK = Fibre Channel
Hard Disk Drive

Fig. 28



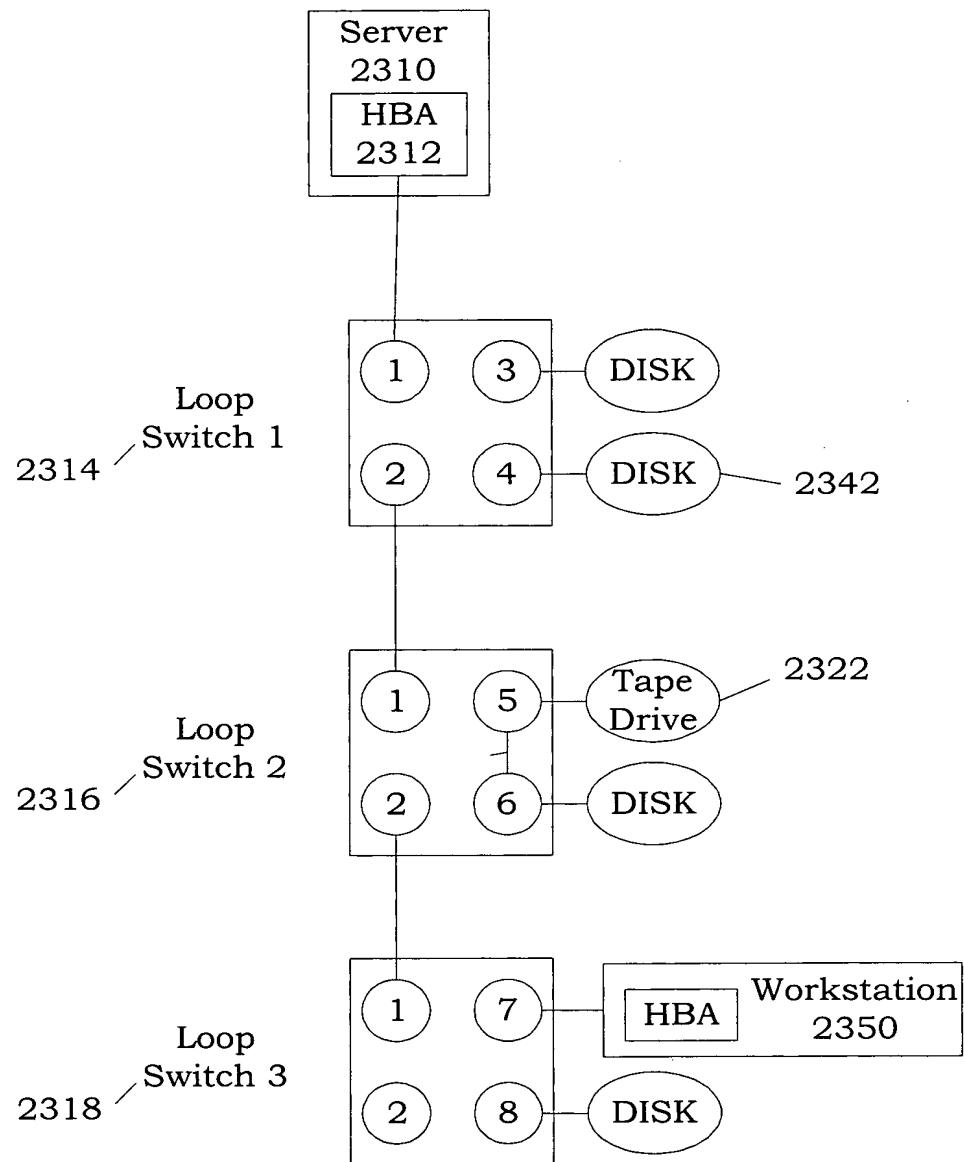
DISK = Fibre Channel
Hard Disk Drive

Fig. 29



DISK = Fibre Channel
Hard Disk Drive

Fig. 30



DISK = Fibre Channel
Hard Disk Drive

Fig. 31

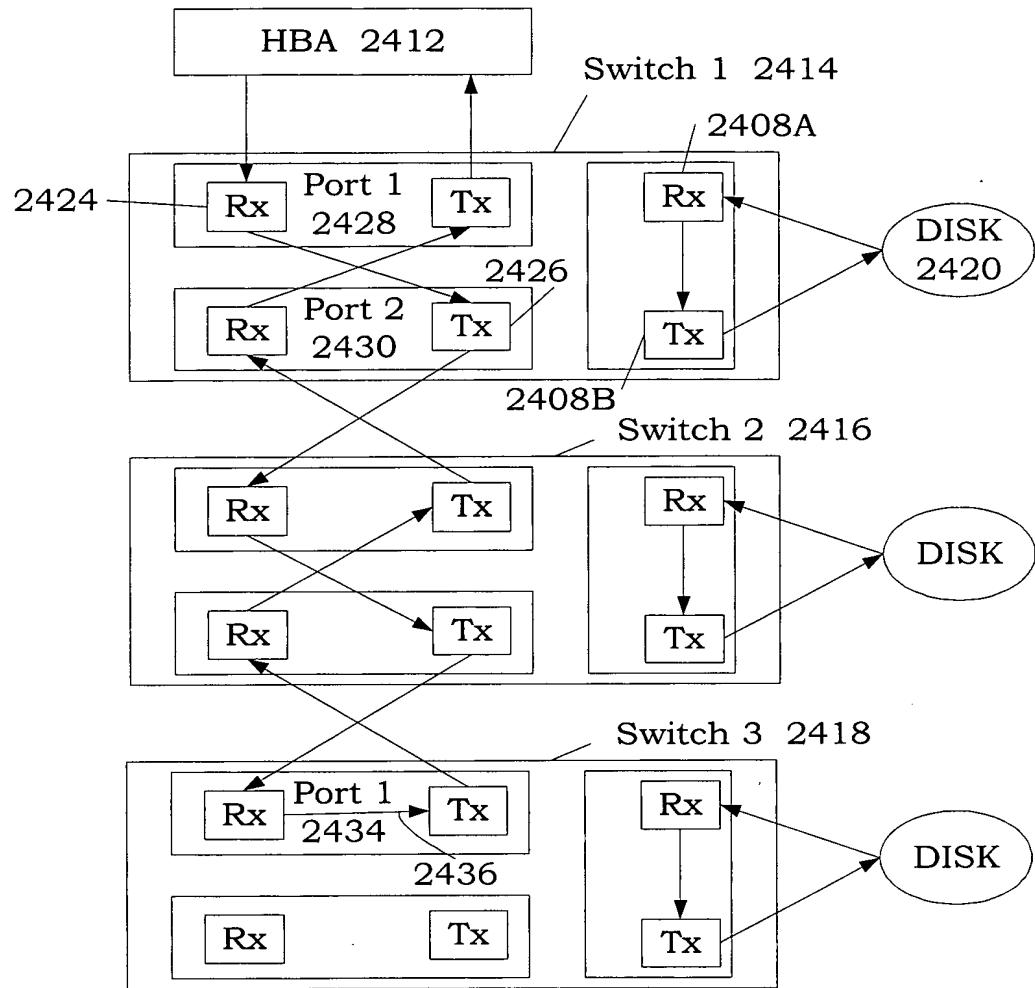


Fig. 32

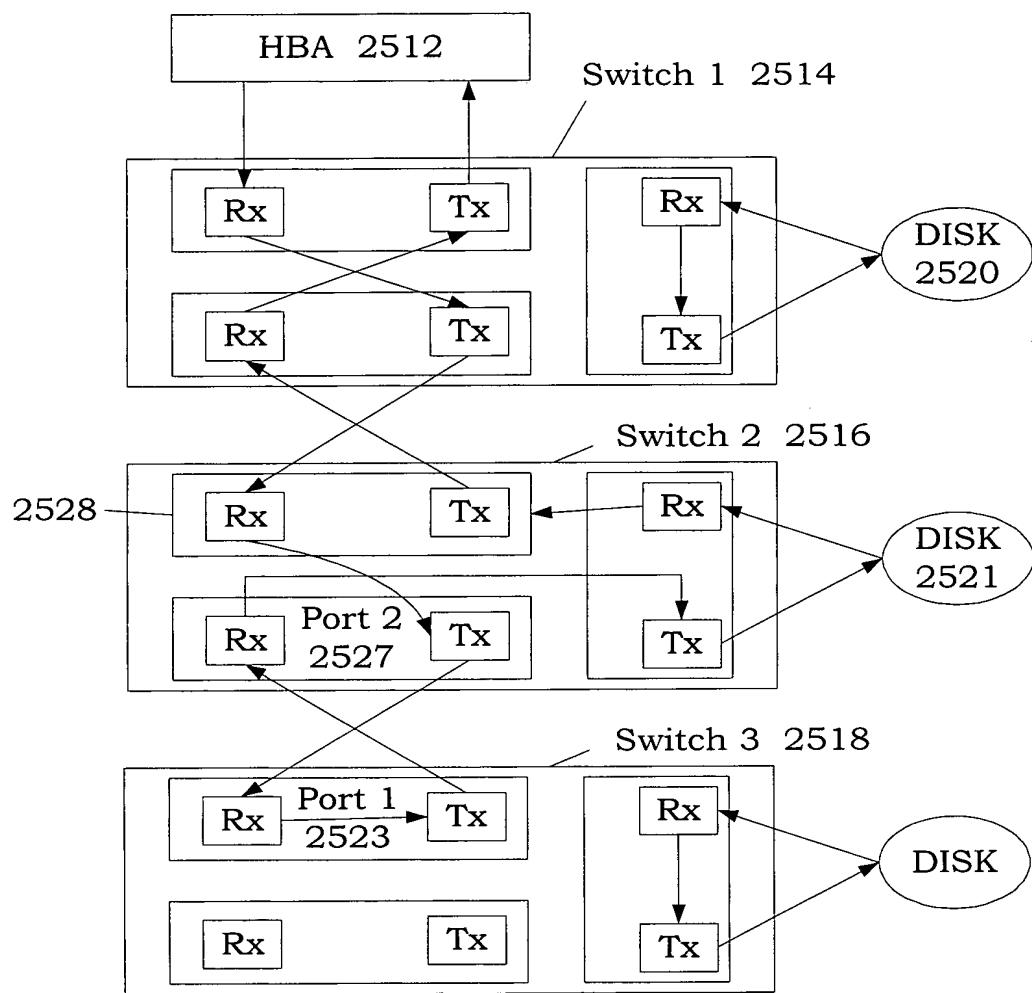


Fig. 33

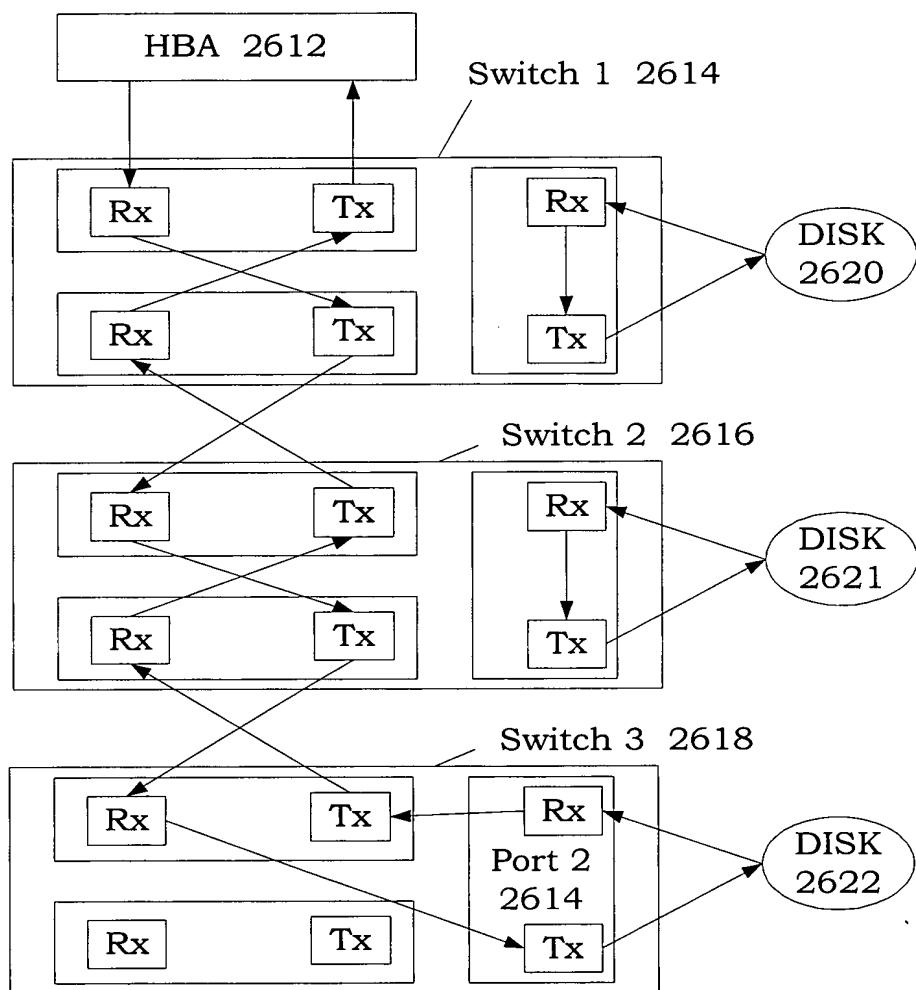


Fig. 34

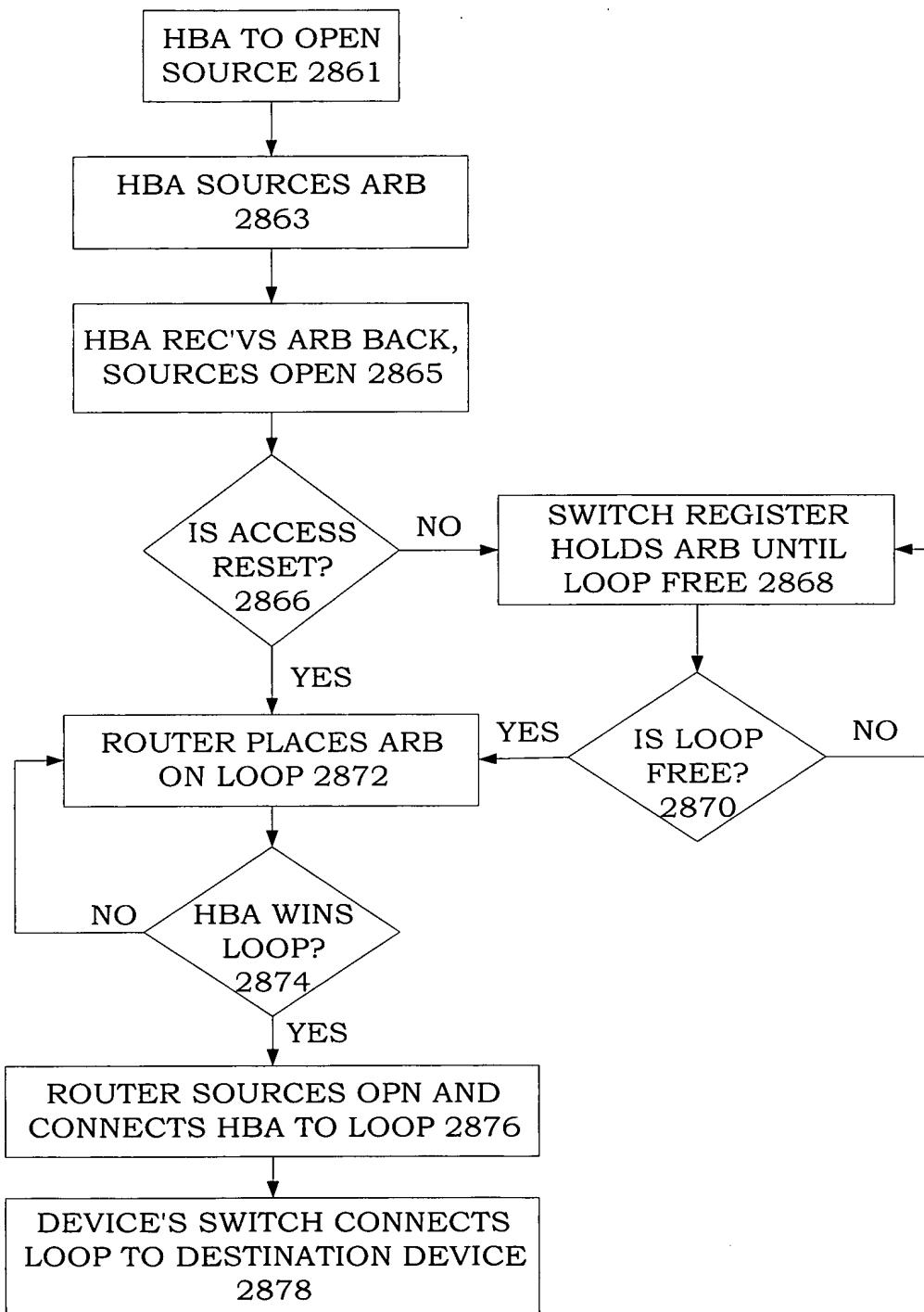


Fig. 35